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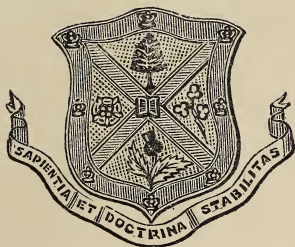
OF

Queen's College and University,

KINGSTON, CANADA,

For the Year 1886-87.

PART I.

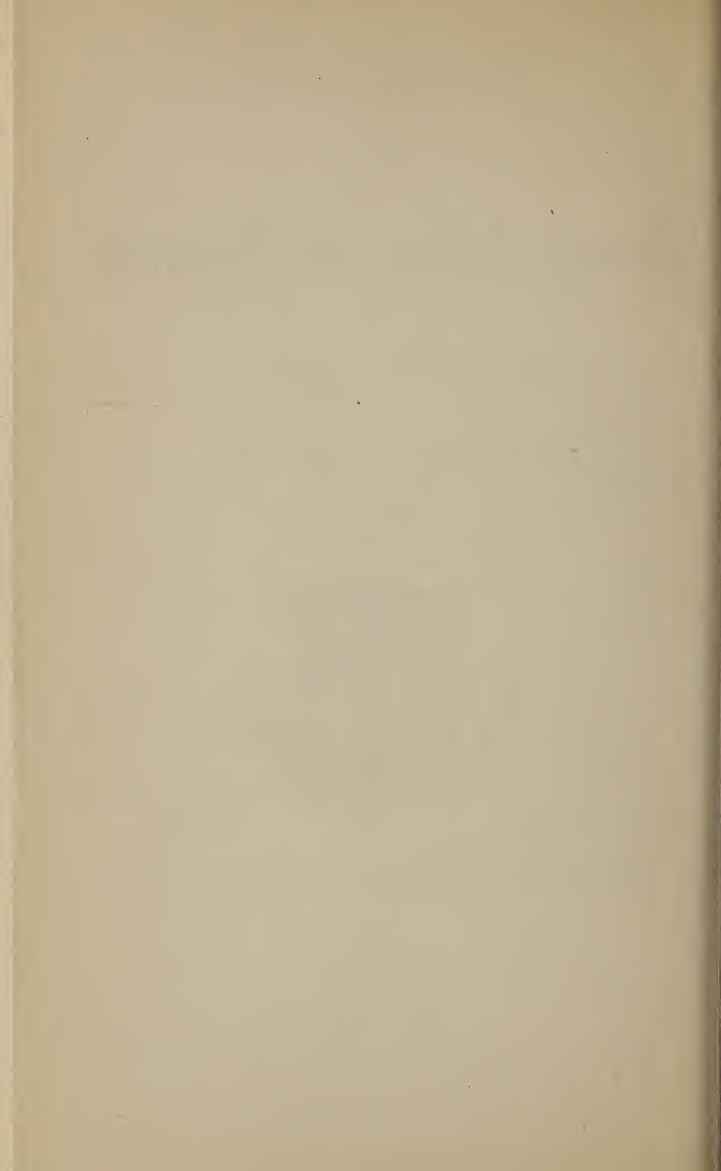


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1886.



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Of the elective members seven retire annually, except in every fifth year, when only five retire. Successors are elected by registered graduates and alumni. Retiring members may be re-elected.

The Council has power to discuss all questions relating to the College and its welfare, to make representations of its views to the Senate or the Board of Trustees, to decide on proposals for affiliation, and to arrange all matters pertaining to the installation of the Chancellor, its own meetings and business, the meetings and proceedings of Convocation, and the fees for membership, registration and voting.

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1886.

- June 2—Candidates for Junior Matriculation required to intimate in writing to the Registrar their intention of appearing, and the High School at which they will appear for examination.
- July —Junior Matriculation examinations in Arts will be held at the High Schools in connection with the Departmental Examinations.
- Sept. 10—Notice of intention to appear at Supplementary Matriculation or pass examinations to be given in writing to the Registrar.
- “ 22—Supplementary examinations begin. (Held in Kingston only.)
- Oct. 1—Classes in Arts open.
- “ 9—Examination for Mowat Scholarship.
- “ 16—University Day—Registration, &c.—Holiday.
- Nov. 3—Matriculation and Supplementary examinations in Theology and Medicine begin.
- “ 8—Time for receiving Essays for University Prizes expires.
- Dec. 18—Christmas Holidays begin.

1887.

- Jan. 4—Classes re-open.
- “ 12—Statutory Meeting of Senate.
- Feb. 15—Time for receiving Essays for Thorburn Prize, and for Gold Medal in History expires.
- “ 23—Holiday.
- March 2—Time for receiving Theses for M.D. expires.
- “ 31—Time for receiving Theses for M.A. and D.Sc. expires.
- April 8—Class-work in Arts closes.
- “ 11—Pass and Honour examinations in Arts begin.
- “ 15—Class-work in Theology closes.
- “ 18—Pass examinations in Theology begin.
- “ 25—Statutory Meeting of Senate for conferring Degrees, &c.
- “ 27—Convocation for distributing Prizes, announcing Honours and laureating Graduates.

CLASS TIME-TABLE.

ARTS.

- 9 A.M.—Junior Philosophy, Junior French, Senior Mathematics.
 10 “ —Natural Science, Senior Latin, Junior Physics.
 11 “ —Junior Greek, Chemistry.
 12 NOON—Senior Physics, English Literature, Junior German.
 2 P.M.—History, Junior Latin, Senior Philosophy.
 3 “ —Junior Mathematics, Senior Greek.
 4 “ —Senior French, Senior German, Junior Hebrew.

The hours for Honour Classes will be arranged by the Professors at the beginning of the Session.

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 10 “ —Third Year Hebrew and Chaldee, First and Second Year Divinity.
 11 “ —O. and N. Testament Criticism, Church History.
 12 “ —Second Year Hebrew, Third Year Divinity.

PASS EXAMINATIONS—TIME TABLE.

1886.7

ARTS.

Monday,	11th April—	French, Junior and Senior.
Tuesday,	12th “	—Latin, “ “
Wednesday,	13th “	—Natural Science.
Thursday,	14th “	—Philosophy, Junior and Senior.
Friday,	15th “	—English Literature, “
Saturday,	16th “	—Mathematics, “
Monday,	18th “	—Physics.
Tuesday,	19th “	—Logic and Political Economy.
Wednesday,	20th “	—History.
Thursday,	21st “	—Greek, Junior and Senior.
Friday,	22nd “	—Chemistry.
Saturday,	23rd “	—German, “

The morning examinations begin at 10 A.M. ; the afternoon at 3 P.M.

The Professors will arrange with their Honour Students the dates for Honour Examinations.

THEOLOGY.


1885.7

Monday,	18th	April—Apologetics.
Tuesday,	19th	“ —Third year Hebrew ; 1st and 2nd year Divinity.
Wednesday,	20th	“ —O. and N. Testament Criticism.
Thursday,	21st	“ —Third year Divinity.
Friday,	22nd	“ —Church History.
Saturday,	23rd	“ —1st and 2nd year Hebrew.

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Greek,	Greek,	Latin,
English,	English,	English,
History,	History,	History,
Geography,	Geography,	Geography,
Mathematics.	Mathematics.	Mathematics.

III.—All Honours and Scholarships will be awarded upon the combined results of the Pass and Honour Examinations.

IV.—To pass the Junior Examination, at least one-fourth of the marks allotted to each subject must be obtained, and to pass the Senior Examination, at least two-fifths.

V.—A student passing in any subject may attend the class connected therewith, but no student is eligible for a scholarship in any department, without passing the examination in English.

SUBJECTS OF EXAMINATION FOR JUNIOR MATRICULATION.

LATIN.

PASS.

Latin Grammar.

Translation of simple English sentences into Latin (involving a knowledge of Bradley's Arnold's Latin Composition, Ex. 1—25).

- | | | |
|-------|---|--------------------------------------|
| 1886. | { | Cicero, Cato Major. |
| | { | Virgil, <i>Æneid</i> , B. I., 1—304. |
| | { | Cæsar, <i>Bellum Britannicum</i> . |
| | | |
| 1887. | { | Cicero, <i>In Catilinam</i> , I. |
| | { | Virgil, <i>Æneid</i> , B. I. |
| | { | Cæsar, <i>Bellum Britannicum</i> . |
| | | |
| 1888. | { | Cicero, <i>In Catilinam</i> , I. |
| | { | Virgil, <i>Æneid</i> , I. |
| | { | Cæsar, B. G. I., 1—33. |
| | | |
| 1889. | { | Cicero, <i>In Catilinam</i> , I. |
| | { | Virgil, <i>Æneid</i> , V. |
| | { | Cæsar, B. G. I., 1—33. |
| | | |
| 1890. | { | Cicero, <i>In Catilinam</i> , II. |
| | { | Virgil, <i>Æneid</i> , V. |
| | { | Cæsar, <i>Bellum Britannicum</i> . |

HONOURS.

Latin Grammar and Composition.

Translation from authors not specified.

- | | | |
|-------|---|---|
| 1886. | { | Horace, <i>Odes</i> , I. |
| | { | Cicero, <i>In Catilinam</i> , I., II., III. |
| | | |
| 1887. | { | Horace, <i>Odes</i> , I. |
| | { | Livy, B. XXII. |
| | | |
| 1888. | { | Horace, <i>Odes</i> , III. |
| | { | Livy, XXII. |
| | | |
| 1889. | { | Horace, <i>Odes</i> , III. |
| | { | Livy, XXIII. |
| | | |
| 1890. | { | Horace, <i>Odes</i> , I. |
| | { | Livy, XXIII. |

GREEK.

PASS.

Greek Grammar.

Translation of simple sentences into Greek.

1886. { Xenophon, Anabasis, B. V.
Homer, Iliad, B. VI.
1887. { Xenophon, Anabasis, B. I.
Homer, Iliad, B. VI.
1888. { Xenophon, Anabasis, I.
Homer, Iliad, IV.
1889. { Xenophon, Anabasis, II.
Homer, Iliad, IV.
1890. { Xenophon, Anabasis, II.
Homer, Iliad, VI.

HONOURS.

Greek Grammar and Composition.

Translation from authors not specified.

1886. { Demosthenes, Aphobus, I. and II.
Homer, Iliad, B. XXII.
1887. { Demosthenes, Olynthiacs.
Homer, Iliad, B. XXII.
1888. { Demosthenes, Olynthiacs.
Homer, Odyssey, VI.
1889. { Demosthenes, Philippics, I., II.
Homer, Odyssey, VI.
1890. { Demosthenes, Philippics, I., II.
Homer, Odyssey, VII.

MATHEMATICS.

PASS.

ARITHMETIC.

A general knowledge of the subject, to the extraction of the square root, inclusive.

ALGEBRA.

The subject, as developed in any modern work, to the solution of the quadratic equation, inclusive.

GEOMETRY.

Euclid, Books I., II., III., with easy deductions.

HONOURS.

A more thorough knowledge of the Pass Matriculation work, and, in addition :

ALGEBRA.

The subject, as developed in any modern work, to the beginning of the Progressions.

GEOMETRY.

Euclid—Books IV., VI., with deductions.

TRIGONOMETRY.

Definitions of the Trigonometric functions and their relation to one another. Angular measurement. Simple applications of Trigonometric relations to Triangle and other plain figures.

ENGLISH.

PASS.

Critical reading of selected poems.

1886—Coleridge's *Ancient Mariner*, and *Christabel*; or, the following in place of *Christabel*:—*Ode to the Departing Year*; *France: an Ode*; *Dejection: an Ode*; *T. William Wordsworth*; *Youth and Age*.

1887—Thomson: *The Seasons*.—Autumn and Winter.

1888—Cowper: *The Task*, Books III. and IV.

1889—Scott: *Lay of the Last Minstrel*.

1890—Byron: *Prisoner of Chillon* and *Childe Harold's Pilgrimage*, from Stanza 73 of Cant. II., to Stanza 51 of Cant. III., inclusive. A Paper on Grammar.

COMPOSITION—The themes for Composition will be based on the following selections :

1886—Macaulay's *Essay on Warren Hastings*.

1887—Southey's *Life of Nelson*. First three chapters.

1888—Coleridge's *Life of Sir Alexander Bate*. (Taken from *Essays in the Friend*.)

1889—Selections from Goldsmith's *Essays*: *Citizen of the World* Preface and Nos. 13, 14, 23, 26, 30, 36, 37, 49, 50, 55, 60.

1890—Selections from Addison's *Essays*. Selection: Nos. 21, 22, 26, 47, 50, 69, 93, 115, 159, 162, 169, 195, 225, 381, 387, 458, 483, 574, 583, 598.

SENIOR MATRICULATION.

Critical reading of one of Shakspeare's plays.

1886—Merchant of Venice.

1887—Timon of Athens.

1888—Julius Cæsar.

1889—As You Like It.

1890—Coriolanus.

Composition.

History of the English Language.

Rhetorical Forms.

History of English Literature during the reigns of Elizabeth and James I.

PASS.

HISTORY AND GEOGRAPHY.

Outlines of Greek History to the close of the Peloponnesian War.

Outlines of Roman History to the end of the Republic.

Outlines of English History to the present time.

Ancient Geography : Greece, Italy and Asia Minor.

Modern Geography : North America and Europe.

HONOURS.

English History under the Houses of Tudor and Stuart.

Geography of the British Empire, including the Colonies.

PASS.

FRENCH.

1886—Souvestre, Un Philosophe sous les Toits.

1887—Lamartine, Christophe Colomb.

1888—Souvestre, Un Philosophe sous les Toits.

1889—Lamartine, Christophe Colomb.

A Paper on Grammar.

Translation from English into French.

HONOURS.

1886—Scribe, Bertrand et Raton.

1887—Scribe, Le Verre d'Eau.

1888—Scribe, Bertrand et Raton.

1889—Scribe, Le Verre d'Eau.

Translation from English into French.

Translation from authors not specified.

PASS.

GERMAN.

1886—Grimm : Kinder-und-Hausmärchen (Williamson & Co.'s edition).

Schiller : Der Taucher.

1887—Hauff : Das Kalte Herz (from Das Wirtshaus im Spessart, Pitt Press Series).

Schiller : Der Gang nach dem Eisenhammer.

1888—Grimm : Kinder-und-Hausmärchen.

Schiller : Der Taucher.

1889—Hauff : Das Kalte Herz.

Schiller : Der Gang nach dem Eisenhammer.

A paper on Grammar and Composition.

HONOURS.

1886—Schiller : Egmont's Leben und Tod (Clarendon Press Series).

Schiller : Das Lied von der Glocke.

1887—Schiller : Belagerung von Antwerpen.

Schiller : Hero und Leander.

Schiller : Die Kraniche des Ibycus.

1888—Schiller : Egmont's Leben und Tod.

Schiller : Das Lied von der Glocke.

1889—Schiller : Belagerung von Antwerpen.

Schiller : Hero und Leander.

Schiller : Die Kraniche des Ibycus.

Translation into English from authors not specified.

Translation from English into German.

OPTIONAL SUBJECTS.

In addition to the above, any one of the following subjects may be offered, and the marks obtained will be taken into account in determining the standing of candidates and in awarding scholarships.

PHYSICS.

The subject as contained in Balfour Stewart's "Primer of Physics."

CHEMISTRY.

The subject as contained in Knight's "Chemistry for High Schools."

BOTANY.

The subject as contained in Gray's "How Plants Grow."

SENIOR MATRICULATION.

This Examination is held only with the Supplementary Examinations in September.

In any other subject the same as that covered by the Pass Examination for the Junior Class of the previous Academic year. See Subjects of Study, pages 42—58.

DEGREE OF B.A.

I.—The course of study for students who have passed the Junior Matriculation extends over four sessions, and for students who have passed the Senior Matriculation examination over three sessions.

II.—Junior Matriculants must take one of the following groups of subjects:

(1)	(2)	(3)
Jun. Latin,	Jun. French & German,	Jun. French & German.
Sen. Latin,	Sen. " "	Sen. " "
Jun. Greek,	Jun. Greek,	Jun. Latin,
Sen. Greek,	Sen. Greek,	Sen. Latin,
Jun. English,	Jun. English,	Jun. English,
Jun. Mathematics.	Jun. Mathematics.	Jun. Mathematics.

III.—Senior Matriculants must take one of the following groups :

(1)	(2)	(3)
Sen. Latin, Sen. Greek.	Sen. French & German, Sen. Greek.	Sen. French & German, Sen Latin.

IV.—All students must take the classes of Junior Philosophy (Mental and Moral), Senior English, and Junior Physics.

V.—All students must take two of the following classes: History, Chemistry, Natural Science, Junior Hebrew, Senior Mathematics, Senior Physics, Senior Philosophy.

VI.—At the close of every session examinations are held, at which students may present themselves for examination in not more than three subjects of the prescribed course. But in the first year the following four subjects may be offered; Junior Latin, Junior Greek (or the equivalent of either), Junior English, and Junior Mathematics. Candidates may also offer any subject in which they have previously failed.

VII.—Supplemental examinations are held, beginning on September 22nd.

VIII.—In exceptional cases the Senate may allow a candidate to come up for examination without attendance on classes, but he will be examined not only on the class-work indicated in the CALENDAR, but also on work specially prescribed.

The Senate recommends the following order of classes :

FIRST YEAR—Junior Latin, Junior Greek (or the equivalent of either in Modern Languages), Junior Mathematics.
SECOND YEAR—Senior Latin, Senior Greek (or the equivalent of either in Modern Languages), Junior English.

THIRD YEAR—Junior Philosophy, Junior Physics, Senior English.

FOURTH YEAR—The two classes referred to in Regulation V. for the Degree of B.A.

HONOUR COURSE.

[Honours may be taken in a single subject, but those students only who take a department in the Honour course rank as Honour students.]

I.—There are four departments in the Honour course: Literature, Philosophy, Mathematics, and Science.

II.—Honours may be obtained in Literature by taking Honours in :—

- (a) Latin and Greek (or the equivalent of either in Modern Languages).
- (b) Latin or Greek, English and History.
- (c) French, German, English and History.

III.—Honours may be obtained in Philosophy by taking Honours in Mental and Moral Philosophy and Political Economy.

IV.—Honours may be obtained in Mathematics by taking Honours in :—

- (a) Pure Mathematics, together with the classes of Senior Physics and Practical Astronomy.
- (b) Physics, together with the first three years in Honour Mathematics.

V.—Honours may be obtained in Science by taking Honours in :—

- (a) Chemistry and any one of the following subjects :—Botany, Zoology, Geology.
- (b) Botany, Zoology, and Geology.

VI.—Candidates for Honours are required to take only the subject or subjects mentioned in Regulation V. for Degree of B.A. relating to their Honour Department.

VII.—Candidates for Honours in Mathematics or Science, and Candidates for Honours in Literature under group (c), are not required to take Senior Classics.

VIII.—Any candidate pursuing an Honour Course, and failing to take at least Second-Class Honours, will not be admitted to the Degree of B.A., unless he completes the Pass Course.

IX.—Any candidate who fails to obtain Honours, or who obtains only Second-Class, may present himself a second time for Examination.

X.—Graduates may attend the classes in Honours on payment of the registration fee.

The Senate recommends the following order of classes, for students reading for Honours :

I. LITERATURE.

(a)

FIRST YEAR—Junior Latin, Junior Greek (or the equivalent of either in Modern Languages), Junior Mathematics, Junior English.

SECOND YEAR—Senior Latin, Senior Greek (or the equivalent of either in Modern Languages), Senior English, Honour Classics.

THIRD YEAR—Junior Physics, Honour Classics.

FOURTH YEAR—Junior Philosophy, Honour Classics.

(b)

FIRST YEAR—Junior Latin, Junior Greek, (or the equivalent of either in Modern Languages), Junior English, Junior Mathematics.

SECOND YEAR—Senior Latin or Senior Greek, Senior English and History.

THIRD YEAR—Junior Physics, Honour Latin or Greek, Honour English and History.

FOURTH YEAR—Junior Philosophy, Honour Latin or Greek, Honour English and History.

(c)

FIRST YEAR—Junior Latin or Junior Greek, Modern Languages, Junior Mathematics, Junior English.

SECOND YEAR—Senior French and German, Senior English, History.

THIRD YEAR—Junior Physics, Honour French and German, Honour English and History.

FOURTH YEAR—Junior Philosophy, Honour French and German, Honour English and History.

II. PHILOSOPHY.

FIRST YEAR—Junior Latin, Junior Greek (or the equivalent of either in Modern Languages), Junior English, Junior Mathematics.

SECOND YEAR—Senior Latin, Senior Greek, Junior Philosophy.

THIRD YEAR—Junior Physics, Senior Philosophy, and Honour Philosophy.

FOURTH YEAR—Senior English, Honour Philosophy.

III. MATHEMATICS.

(a)

FIRST YEAR—Junior Latin, Junior Greek (or the equivalent of either in Modern Languages), Junior English, Junior Mathematics.

SECOND YEAR—Senior Mathematics, Junior Physics, Senior English.

THIRD YEAR—Honour Mathematics, Senior Physics, and Practical Astronomy.

FOURTH YEAR—Honour Mathematics, Junior Philosophy.

(b)

FIRST YEAR—Junior Latin, Junior Greek (or the equivalent of either in Modern Languages), Junior Mathematics, Junior English.

SECOND YEAR—Senior Mathematics, Junior Physics, Senior English.

THIRD YEAR—Honour Mathematics, Senior Physics, Honour Physics.

FOURTH YEAR—Junior Philosophy, Honour Physics.

IV. SCIENCE.

(a)

FIRST YEAR—Junior Latin, Junior Greek (or the equivalent of either in Modern Languages), Junior Mathematics, Junior English.

SECOND YEAR—Natural Science, Chemistry, Junior Philosophy.

THIRD YEAR—Junior Physics, Honour Chemistry, Honour Botany, Zoology or Geology.

FOURTH YEAR—Senior English, Honour Chemistry, Honour Botany, Zoology or Geology.

(b)

FIRST YEAR—Junior Latin, Junior Greek (or the equivalent of either in Modern Languages), Junior Mathematics, Junior English.

SECOND YEAR—Chemistry, Junior Physics, Natural Science.

THIRD YEAR—Honour Natural Science, Junior Philosophy.

FOURTH YEAR—Honour Natural Science, Senior English.

These regulations apply to Matriculants of Session 1883-84 and thereafter. Matriculants of previous sessions may adhere to the former regulations or choose these, but cannot adopt either partially.

DEGREE OF M.A.

I.—This degree cannot be obtained until one year from the date of graduation as B.A.

II.—It is conferred upon candidates who have obtained Honours in any one of the Departments of the Honour Course.

III.—Candidates must offer a satisfactory Thesis upon some subject connected with their Honour Department. This Thesis must be sent in to the Registrar not later than the last day of March.

DEGREE OF D.Sc.

I.—This degree cannot be obtained until two years from the date of graduation as M.A.

II.—It is conferred upon candidates who have obtained first-class Honours in any two of the Departments of the Honour Course.

III.—The candidate must deliver in the University a course of at least three lectures upon some subject connected with one of his Honour Departments. These lectures must be sent into the Senate for approbation, not later than the last day of March.

DEGREE OF LL.D.

This degree is honorary, and is awarded for literary, scientific or professional distinction.

SUBJECTS OF STUDY.

LATIN.

JUNIOR CLASS.

- 1886-7—Livy, XXII.
Horace, Odes, III.
1887-8—Livy, XXIII.
Horace, Odes, III.
1888-9—Livy, XXIII.
Horace, Odes, I.
1889-90—Livy, XXI.
Horace, Odes, I.
Latin Grammar and Composition.
Translation from authors not specified.

SENIOR CLASS.

- Cicero, Pro Ligario.
Philippic, I.
Philippic, XIV.
(From Orationes Selectæ, Harpers.)
Virgil, Æneid, Bb. VII., VIII.
Latin Grammar and Composition.
Translation from authors not specified.

HONOURS.

- Tacitus, Annals, B. I.
Livy, B. XXI.
Cicero, De Oratore, B. II.
Philippic II.
Pro Murena.
Lucretius, B. III.
Virgil, Æneid, Bb. VII., VIII., IX., X., XI., XII.
Plautus, Trinummus.
Terence, Phormio.
Horace, Odes and Satires.
Juvenal, Satires III., VII., VIII., X.
Translation from authors not specified.
Latin Grammar and Composition.

BOOKS RECOMMENDED.

- Crutwell's Roman Literature.
Peile's Etymology.
Papillon's Comparative Philology.
Wordsworth's Fragments and Specimens of
Early Latin.
Allen & Greenough's Latin Grammar.

GREEK.

JUNIOR CLASS.

- 1886-7—Demosthenes, Olynthiacs.
Homer, Odyssey, B. VI.
- 1887-8—Demosthenes, Philippics, I., II.
Homer, Odyssey, B. VI.
- 1888-9—Demosthenes, Philippics, I., II.
Homer, Odyssey, B. VII.
- 1889-90—Xenophon, Cyropaedia, B. I.
Homer, Odyssey, B. VII.
- Greek Grammar and Composition.
Translation from authors not specified.

SENIOR CLASS.

- Thucydides, B. I.
Sophocles, Ajax.
Greek Grammar and Composition.
Translation from authors not specified.

HONOURS.

- Herodotus, B. IX.
Thucydides, B. III., VII.
Demosthenes, De Corona.
Aristotle, Ethics, B. I., II., X.
Plato, Republic, B. I., II., III., IV.
Homer, Iliad, B. VI., XVIII, XXII.
Odyssey, B. VI., XII., XXI.
Æschylus, Agamemnon.—
Prometheus.
Sophocles, Ajax.
Philoctetes.
Euripides, Medea.
Aristophanes, Clouds.
Pindar, Isthmian Odes.
Translation from authors not specified.
Greek Grammar and Composition.

BOOKS RECOMMENDED.

- Mahaffy's Greek Literature.
Goodwin's Greek Grammar.
Papillon's Comparative Philology.

MATHEMATICS.

JUNIOR CLASS.

ALGEBRA.—Nature of Symbols and of operations with them—Synthetic Division—Factoring—Substitution—Fractions—Ratio and Proportion—Indices and Surds—Theory of the Quadratic Equation—Elimination—Inequalities—Arithmetic, Geometric and Harmonic Series—Variation—Permutations, &c.—Binomial Theorem—Use of Logarithms, Exponential Equations—Continued Fractions—Square and Triangular Numbers—Indeterminate Co-efficients.

(The Text Book employed is “Queen’s College Junior Algebra.”)

GEOMETRY.—Euclid, Bks. II., III., by modern methods only—Bks. VI., with portions of Bks. IV. and V. Elementary Geometry of Planes and Solids.

The work on Geometry will be supplemented by such modern methods as Continuity, Projection, Limits and Geometrical Plotting.

TRIGONOMETRY.—The functions of Angles with their relations and simpler combinations. Application of these to the Triangle, the Polygon, and to the solutions of simple Trigonometrical problems.

HONOURS.

Honour Students in Mathematics are not required to take the Pass Class.

FIRST YEAR.

ALGEBRA.—Review of Elementary Portions—Theory of the Quadratic—Elimination, Combinations, &c.—Elementary Series—Binomial, Logarithmic and Exponential Theorems—Continued Fractions—Elementary Determinants and their application—Partial Fractions—Indeterminate Co-efficients and their applications.

GEOMETRY.—Equivalents to Euc. Bks. II., III., IV., VI.; modern methods employed—Theory of Inversion and of pole and polar with respect to a circle—Concurrence and Collinearity—Of traced and enveloped curves.

TRIGONOMETRY—The principal parts of plane Trigonometry preceding DeMoivre's theorem (Lock's Elements of Trigonometry).

(This class meets three days in the week.)

SECOND YEAR.

ALGEBRA—Determinants—Elementary Theory of Equations—Differential and Recurring Series—Algebraic Development of Functions—Trigonometric and Circular Functions—DeMoivre's Theorem and its consequences—Solution of Binomial Equations—Trigonometric Series—Elements of the Differential Calculus.

GEOMETRY—Synthetic Solid Geometry—Conics, by Cartesian Co-ordinates, &c.—Theories of the Radical Axis and of Axes and Centres of Similitude—Theory of Harmonic and Anharmonic Section—Of Involution and Homography.

(This class meets three days in the week.)

THIRD AND FOURTH YEARS.

In each Session the following Courses of Lectures will be given upon the Differential and Integral Calculus and closely allied subjects.

COURSE I.—Elementary, including Differentiation and Simple Integration, with various applications to Geometry and Physics. Double Differentiation and Integration with application. Development of Functions. Taylor's Series, &c. Maxima and Minima of one variable. The Differential Calculus applied to Plane Curves. Areas, Surfaces, Volumes, &c., determined by Integration. Centre of Mass and Moment of Inertia.

Candidates are advised to consult—

Taylor's Elements of the Calculus.

COURSE II.—Higher Theorems in the Differential Calculus with applications. Methods of Integration. Definite Integrals and Gamma Functions. Determination of Mean values, &c. Higher Plane Curves.

Differential Equations.

Calculus of Finite Differences.

Candidates may consult—

Williamson's Differential Calculus.

“ Integral Calculus.

Boole's Differential Equations.

“ Calculus of Finite Differences.

The remaining Lectures upon the Honour work will be upon the following subjects, the groups being taken in alternate years :—

1887—Theory of Numbers. Probabilities. Modern Methods in Analytic Geometry, applied to Conics and other Plane Curves.

Spherical Trigonometry, and its application in Geodesy, Astronomy, and Navigation.

Candidates may consult—

Salmon's Conic Sections.

Whitworth's Modern Analytic Geometry.

Todhunter's Spherical Trigonometry.

Brunow's Practical Astronomy.

1888—Theory of Equations, with Determinants, Covariants and Invariants.

Analytic Geometry of Three Dimensions.

Quaternions.

Candidates may consult—

Burnside and Panton's Theory of Equations.

Frost's Solid Geometry, or Salmon's Geometry of three Dimensions.

Aldis's Solid Geometry, Smith's Solid Geometry.

Kelland and Tait's Quaternions.

Hardy's Quaternions.

A Candidate may take the whole of the Honour work in four examinations, but he may offer the whole work at less than four examinations if he wishes to do so.

With respect to the Grouped Subjects, papers will be set in each year only upon the subjects taken up in that year; and as each candidate for Honours must

take all the subjects prescribed in the Honour course (whether taken up in the lectures or not), he must arrange his examinations accordingly.

PHYSICS.

JUNIOR CLASS.

The various subjects will be treated to a great extent experimentally, but the simpler applications of Geometry, Algebra, and the rudiments of Trigonometry to physical questions will also be discussed in the lectures. The student is recommended to attend the Junior Mathematical Class before that of Physics. The subjects treated will be:—

I.—Dynamics, (*a*) of Solids, (*b*) of Fluids.

Under this heading those subjects, commonly called Mechanics, Hydrostatics, Hydrodynamics, and Pneumatics, are included.

II.—Properties of Matter—embracing such subjects as Mass, Density, Gravitation, Specific Gravity, Weight of Gases, Elasticity, Molecular Forces. Energy—Its Divisions and Fundamental Principles; Theories of Matter.

III.—Heat—including Thermometry, Calorimetry (Specific and Latent Heats), Hygrometry, Transference of Heat (Conduction and Radiation), Dynamical Theory of Heat.

IV.—Light (*a*) Geometrical Optics, (*b*) Physical Optics—including the Laws of Radiant Energy, generally, the Construction and Uses of Optical Instruments, and Spectrum Analysis.

V.—Acoustics—including the Physical Theory of Music and Optical Methods of studying Vibratory Motions.

VI.—Magnetism, with special reference to Terrestrial Magnetism.

VII.—Electricity—including Frictional Electricity, Voltaic Electricity, Magneto-Electricity, Electro-Magnetism, Diamagnetism, Electro-Dynamics, Thermo-Electricity.

The only Text-book used for the present will be Marshall's Introduction to the Science of Dynamics. The student is, how-

ever, recommended to provide himself with the following books, for use in connection with the lectures and other class work :—

1. Deschanel's Natural Philosophy or Ganot's Physics.
2. Everett's Units and Physical Constants.
3. Chambers' Mathematical Tables.

He will find Clerk Maxwell on Matter and Motion, and Tait's Recent Advances in Physical Science very valuable as works of reference.

SENIOR CLASS.

The work done in this class will be a continuation of that done in the Junior with applications of higher mathematical analysis. The knowledge of Mathematics expected of the student is such as is given in the Senior Mathematical Class. In preparation for the lectures the student may read the following works :

In Dynamics :—Thompson and Tait's Elementary Natural Philosophy, Besant's Hydrostatics, Frosts' Newton's Principia, Tait's Properties of Matter.

In Heat :—Balfour Stewart's Heat ; Clark Maxwell's Theory of Heat ; Tait's Thermodynamics.

In Optics :—Dupuis' Geometrical Optics ; Lloyd's Wave Theory of Light.

In Acoustics :—Taylor's Sound and Music.

In Electricity :—Cumming's Theory of Electricity.

HONOURS.

Student's studying for Honours will have the opportunity of reading with the Professor the applications of the Higher Mathematics to Physics. A knowledge of the fundamental principles of the Differential and Integral Calculus is necessary.

The subjects taken up first will be Dynamics of a Particle and of a Rigid Body, for which the student may read the following works :—

1. Tait and Steele's Dynamics of a Particle.
2. Todhunter's or Minchin's Analytical Statics.
3. Pirie's Lessons on Rigid Dynamics.

PHYSICAL LABORATORY

The Physical Laboratory is open for the use of students from 10 till 15 o'clock, during the session. Its object is two-fold: (1) to make students familiar with physical instruments, and the modes of using the same, so as to enable them to verify what is taught as the true interpretation of physical phenomena, and the laws which govern these; (2) to render assistance to competent students to carry on original investigations.

MENTAL AND MORAL PHILOSOPHY AND
POLITICAL ECONOMY.

JUNIOR CLASS.

The books read in this class are Jevons' Lessons in Logic, Plato's Republic, Aristotle's Ethics, and Rogers' Manual of Political Economy.

The Lectures embrace: (1) an examination of the method of Aristotelian Logic; (2) a Critical Account of Philosophical Systems; (3) the Outlines of a System of Philosophy, and (4) a Discussion of the leading Principles of Political Economy.

Weekly exercises are required of students.

SENIOR CLASS.

This class deals with the Higher Problems of Philosophy. During the present Session the work will consist mainly of (1) the Study and Critical Examination of the Philosophy of Kant in its relation to English Philosophy past and present, and (2) the discussion of the principles of Psychology and Ethics.

The books read in this class are Watson's Philosophy of Kant in Extracts, Wallace's Logic of Hegel Green's

Prolegomena to Ethics, Fraser's selection from Berkeley and Mill's Logic, Book III.

Students are required to write the essays prescribed.

PRIVATE CLASS.

This class is intended partly for the study of the work prescribed for Honours, but mainly for the independent investigation by students of Philosophical systems and theories.

HONOURS.

A. MENTAL PHILOSOPHY.

Candidates will be examined on the following books :

- Plato's Republic and Theætetus.
- Aristotle's De Anima.
- Descartes' Discourse on Method and Meditations.
- Locke's Essay on the Human Understanding.
- Berkeley's Philosophical Writings (Fraser).
- Hume's Treatise on Human Nature, Vol. I., with Green's Introduction (Green & Grose's edition).
- Kant's Critique of Pure Reason and Prolegomena.
- Mill's System of Logic.

B. MORAL PHILOSOPHY.

Candidates will be examined in the following books :

- Aristotle's Nichomachean Ethics.
- Spinoza's Ethics and De Intellectus Emendatione.
- Hume's Treatise on Human Nature, Vol. II., with Green's Introduction (Green & Grose's edition).
- Kant's Critique of Practical Reason (Abbott).
- Hegel's Philosophy of History.
- Maine's Ancient Law.

Familiarity with the substance of the main philosophical systems of ancient and modern times is expected.

C. POLITICAL ECONOMY.

Candidates are required to show a thorough knowledge of the principles of Political Economy. They

will be examined on the following books, although a minute knowledge of them is not expected :

Smith's Wealth of Nations (Rogers' edition).
 Mill's Principles of Political Economy.
 Fawcett's Manual of Political Economy.
 Roscher's Principles of Political Economy.
 Jevons' Money and Mechanism of Exchange.
 Cunningham's Growth of English Industry and Commerce
 Brentano's Guilds and Trade Unions.

In addition, they are required to write an essay on Mr. Henry George's "Progress and Poverty," which must be given in to the Registrar not later than April 2, 1886.

CHEMISTRY.

Lectures on the general principles and Laws of Chemistry; the more commonly occurring elements and their compounds; an outline of Crystallography; and Organic Chemistry.

BOOKS FOR CONSULTATION—Roscoe's Elementary Chemistry; Crum Brown's Elements of Chemistry; Fownes' Chemistry by Watts; Miller's Chemistry.

HONOURS.

The course for Honours extends over two years; and comprises theoretical and practical Chemistry.

THEORETICAL—The subjects to be studied during the Session of 1886-87, Chemical Technology and Chemical Physics; during the Session of 1887-88, Organic Chemistry and Mineralogy.

BOOKS FOR CONSULTATION—Wagner's Chemical Technology; Miller's Chemical Physics; Remsen's Organic Chemistry; Collins' Mineralogy; Lockyer on the Spectroscope.

PRACTICAL—The Laboratory work for the *first year* consists of the preparation and examination of the commoner elements and compounds, followed by a course in simple Qualitative Analysis.

The *second year* is occupied with Complex Qualitative Analysis and Quantitative Analysis.

The Gold Medallist in Chemistry for any year has the privilege of pursuing his studies in the Laboratory, free of charge, during the year following. He is expected to give the Professor assistance in directing the work of the junior students, and ranks as Demonstrator of Chemistry.

THE LABORATORY.

The Laboratory is open from 9 A.M. to 4 P.M. on Monday, Tuesday, Wednesday, Thursday, and Friday, and from 9 A.M. to 12 on Saturday.

Each student is supplied with a set of apparatus, and is liable for breakage.

Books—Macadam's Practical Chemistry ; Thorpe's Qualitative Analysis ; Fresenius' Qualitative Analysis ; Sutton's Volumetric Analysis ; Thorpe and Muir's Quantitative Analysis.

FOR STUDENTS OF MEDICINE.

The course for students of medicine extends over two sessions. The *first session's* work consists of experimental lectures on the principles of chemical science with special reference to its bearing on medicine. The *second session* is devoted to the preparation and study of the more commonly occurring elements and their compounds. The student prepares and examines for himself the principal chemical substances used in medicine.

In the class of *Analytical Chemistry* systematic testing of chemical substances is taught. This class is intended to prepare the student to test the purity of drugs, &c. It may be taken during either the winter or the summer session.

Books—Roscoe's Chemistry ; Crum Brown's Chemistry.

NATURAL SCIENCE.

The lectures embrace an outline of the subjects of Botany, Zoology, and Geology.

The lectures on Botany deal with the Morphology of the Cell, the Tissues and the various organs of plants; the arrangements for cross-fertilization; the elements of plant-food; assimilation, metastasis, movements of water and gases in the plant; effects of temperature; principles of classification; the characters of a number of typical orders, illustrated by the examination of specimens and Botanical Charts.

The lectures on Zoology include a description of typical specimens of every branch, or large division of animals. The Morphology, including Histology, Physiology, Mode of Nutrition, Reproduction, and Distribution of individual specimens, is fully illustrated, and the characters according to which they are classified are carefully studied. The Human Skeleton is fully described.

The subjects dealt with in the lectures on Geology are:—Lithological Geology, Dynamical Geology, and an outline of the Geological History of the Globe, with special reference to the formations found in Canada. The lectures are illustrated by specimens and diagrams.

Students are required to give in monthly essays on prescribed subjects.

No text-book is used, but the following works must be consulted:

Huxley and Martin's Elementary Biology.

Gray's Structural Botany.

Bessey's Botany.

Packard's Zoology.

Dana's Manual of Geology.

HONOURS.

The course for Honours is for students who have completed the Pass course, and who desire to prosecute their studies still further. It extends over two years, in addition to the Pass course, and embraces Book work and Laboratory work. Classes meet every day. Essays are required on specified subjects in every department.

SECOND YEAR.

Botany—A practical acquaintance with the Phænogamous Plants of Canada is obtained by the careful examination and analysis of specimens.

Books for Laboratory work :—Gray's Manual of Botany ; Wood's Class-book of Botany.

Text-books on which candidates are examined :—Gray's Structural Botany ; Bessey's Botany.

Zoology—Laboratory work includes a careful examination of skeletons and mounted specimens of representative species of the different divisions or classes of vertebrata, and the dissection of such as can be procured for the purpose.

Books for Laboratory work :—Jordan's Manual of American Vertebrates ; Mivart on the Cat ; Mivart on the Frog ; Huxley and Martin, Elementary Biology.

Text-books for Examination :—Packard's Zoology ; Huxley's Vertebrata ; Foster & Balfour's Elements of Embryology.

Geology—Outlines of Physical Geography, Geology, Palæontology. Examination and determination of minerals and rocks.

Text-books for Examination :—Page's, or Geikie's Physical Geography ; Lyell's Principles of Geology ; Dana's Manual of Geology ; Johnstone's Elementary Physical Atlas.

Books for reference :—Elisee Reclus, The Earth ; Elisee Reclus, The Ocean ; Dana's Manual of Mineralogy.

THIRD YEAR.

Botany—Daily Laboratory work in the examination of specimens of Phænogamous and Cryptogamous Plants. Distribution of plants in time and space. Economic botany.

Text-books :—Bessey's Botany ; Gray's Botanical Text-book, Vols. I. and II.

For reference :—Sach's Text-book of Botany ; Thome's Botany ; Macoun's Catalogues of Canadian Plants.

Zoology—Examination and dissection of specimens. Palæontological history and distribution of species.

Books for Laboratory work :—Mivart on the Cat ; Wilder and Gage's Anatomical Technology ; Parker's Zootomy.

Text-books :—Huxley's Invertebrata ; Huxley's Elementary Physiology ; Mivart's Elementary Anatomy ; Wallace's Distribution of Animals.

For reference :—Gunther on Fishes ; Flower's Osteology of the Mammalia ; Owen's Anatomy of Vertebrata.

Geology—Examination of specimens of Rocks, Fossils, etc. A special study of Canadian Geology.

Text-books for examination :—Dana's Manual of Geology ; Chapman's Geology of Canada ; Nicholson's Palæontology ; Croll's Climate and Time.

Books for reference ; Geikie's Text-Book of Geology ; Nicholson's Palæontology of Ontario ; Chapman's Synopsis of Palæontology.

HISTORY.

LECTURES. I. Ancient History—(1) On Early Aryan Institutions. (2) A Comparison of the Greek with the Roman State. (3) On the Development of Greek and Roman Civilization.

II. Modern History—(1) On the Causes of the Fall of Rome, and on the Rise of New Nationalities (2) On the Feudal System. (3) On the Rise of the Italian Republics and the Communes in France. (4) On the Development of the French Monarchy. (5) On the British Constitution.

Text-Books—(1) Rawlinson's Manual of Ancient History. (2) Hallam's Middle Ages.

Books Recommended—Gladstone's *Juventus Mundi*, Curtius' History of Greece, Grote's History of Greece, Boeck's Public Economy of the Athenians, Mommsen's History of Rome, Ihne's History of Rome, Guizot's History of Modern Civilization, Sir James Stephens' Lectures on the History of France. Taswell Langmead's English Constitutional History, Guizot's History of France.

Fortnightly Essays required.

HONOURS.

FIRST YEAR—Lectures on the Theories and Principles of Government, including a review of different systems, Ancient and Modern.

Text-Books—Stubb's Constitutional History of England, Vols. I. and II.

SECOND YEAR—Lectures—A Comparison of the British Constitution with other Constitutions, especially that of the United States.

Text-Books—Stubb's Constitutional History of England, Vol. III. Hallam and May's Constitutional Histories.

Fortnightly Essays required.

Books Recommended—First Year—Plato's "Republic," Aristotle's "Politics," Cicero's "Republic," Machiavelli's "Prince," Hobbe's "Leviathan," Locke's "Treatise on Civil Government," Rousseau's "Social Contract."

Second Year—De Tocqueville's "Democracy in America," Mills' "Representative Governments," Hare's "On Representation," Bagehot's "Constitutional Government," Jenning's "Eighty Years of Republican Government in the United States," Wilson's "Congressional Government."

RHETORIC AND ENGLISH LITERATURE.

JUNIOR CLASS.

- LECTURES. I. On English Language.
 II. On Rhetoric.
 III. Critical Review of works of various authors in
 Prose and Poetry, including the following :

1886-7—Addison's Essays in *Spectator*, Nos. 267, 273, 279, 285, 291, 297, 303, 309, 315, 321, 327, 333.

Macaulay on Milton.

Shakespeare's Timon of Athens.

1887-8—Johnson's Rasselas.

Burke's Reflections on the French Revolution.

Shakespeare's Julius Cæsar.

SENIOR CLASS.

LECTURES. I. On Prosody.

II. On the Literature of the 17th and 18th centuries.

Weekly Essays are required in each class.

Books Recommended—Max Muller's Science of Language, Marsh's Lecture on the English Language, Maetzner's English Grammar, Craik's English Literature, Taine's English Literature, Gervinus' Commentaries on Shakespeare, Dowden's Shakespeare's Mind and Art, Hudson's Shakespeare's Life, Art, and Characters, Ayres' Verbalist, Hodgson's Errors in Writing English.

HONOURS.

FIRST YEAR—Marsh's Anglo-Saxon Grammar.

Thorpe's *Analecta-Saxonica*.

Chaucer's Prologue, Knight's Tale, None's Priest's Tale, Spencer's Faery Queene, Books I. and II.

SECOND YEAR—Beowulf. Milton's Comus. Il Penneoroso and L'Allegro. Lectures on the Teutonic Sagas.

MODERN LANGUAGES.

In all the Examinations of this department passages will be set for translation from works not specified. No candidate shall be entitled to first-class Honours, unless the examiner be satisfied of the candidate's ability to maintain a conversation in these languages.

GERMAN.

JUNIOR CLASS.

Otto's German Grammar. Composition.
 Immermann, *Der Oberhof*. (Pitt Press Series.)
 Schiller, *Maria Stuart*.
 Outlines of the History of German Literature.
 (Helen Conant.)

SENIOR CLASS.

Composition. History of the Language.
 Goethe, Tasso.
 Schiller's *Dreissig Jährigen Kriegs* (Book II.).

HONOURS.

Goethe, *Faust*, 1st part.
 Wieland, *Oberon*, Cantos VII. to XII
 Lessing, *Nathan der Weise*.
 Nibelungen Lied, *Aventt*, I. to V.
 Schleicher, *Die Deutsche Sprache*.
 Helfenstein, *Comparative Grammar of Teutonic Languages*.
 Gostwick and Harrison's "Outlines of German Literature."

FRENCH.

JUNIOR CLASS.

Grammar. Composition.
 Erckmann-Chatrian, *Le Conscrit de 1813*.
 Racine, *Esther*.
 Primer of French Literature (Saintsbury).

SENIOR CLASS.

Louis XIV. et ses contemporains (Clarendon series)
 Corneille, *Horace*.
 Voltaire, *Alzire*.
 Racine, *Iphigénie*.
 History and Etymology of the French Language.

HONOURS.

Victor Hugo, *Hernani*.
 Molière, *Les Fourberies de Scapin*, *Le Tartuffe*.
 Corneille, *Cinna*, *le Cid*.
 Cousin, *Introduction à l'histoire de la Philosophie*.
 Vinet, *Etudes sur Blaise Pascal*.
 Brachet, *Grammaire Historique*.
 Demogeot, *Littérature Française*
 Littré, *Histoire de la Langue Française*
 Diez, *Grammaire des Langues Romanes*

FACULTY OF LAW.

MATRICULATION.

I.—The Junior Matriculation examination is the same as the Junior Matriculation in Arts.

II.—The Senior Matriculation examination is the same as the Senior Matriculation in Arts, with the addition of Taswell-Langmead's Constitutional History.

DEGREE OF LL.B.

I.—The course of study for students who have passed the Junior Matriculation examination extends over four sessions, and for Students who have passed the Senior Matriculation over three sessions.

II.—Junior Matriculants must take the following subjects:—

- Junior Latin.
- Senior Latin.
- Junior Mathematics.
- Junior Physics or Chemistry.
- Junior French.
- Senior French.
- Junior Philosophy and Political Economy.
- English Literature.
- History.
- { Roman Law and
- { Constitutional Law and History.
- The Law of Real Property.
- Equity.
- Common Law.
- Criminal Law and Medical Jurisprudence.
- Commercial Law.

III.—Senior Matriculants must take the following subjects:—

- Senior Latin.
- Junior Physics or Chemistry.
- Senior French.

Junior Philosophy and Political Economy.

English Literature.

History.

{ Roman Law and
Constitutional Law and History.

The Law of Real Property.

Equity.

Common Law.

Criminal Law and Medical Jurisprudence.

Commercial Law.

IV.—The candidate for graduation must in each session pass an examination upon the subjects in Arts he has studied, but he is not allowed to present himself for examination upon more than three of those subjects at one time, unless he has previously failed in some subject.

V.—He must also pass an examination in the last year of his course, in all the professional subjects prescribed.

CURRICULUM OF LAW FACULTY.

The legal studies for the degree of LL.B. will extend over three sessions.

Every candidate must have regularly attended the classes prescribed in Constitutional History, Criminal and Commercial Law, Common Law, Real Property Law; Equity, Roman Law, and Medical Jurisprudence, throughout his course.

Any graduate in Arts of Queen's University, who is also a Barrister-at-Law, will be admitted to the degree of LL.B. upon passing an examination to be prescribed by the Faculty.

COURSE OF INSTRUCTION.

1. CONSTITUTIONAL HISTORY.—Two lectures a week. Text-books recommended—Stubb's Constitutional History; Hallam's History of British Constitution; Taswell-Langmead's English Constitutional History.

2. CRIMINAL AND COMMERCIAL LAW.—One lecture a week. Text-books recommended—Smith's Mercantile Law; Blackstone's Commentaries, Vol. IV.; Russell on Crimes; Harris' Criminal Law.

3. ROMAN LAW.—One Lecture a week during the second and third years. Text-books—Justinian (Sanders' edition), or Tomkins and Jenckens' Compendium of Roman Law; Kent's Commentary on International Law, or Wheaton's International Law.

4. COMMON LAW.—Two lectures a week. Text-books—*First year*, Smith's Manual of Common Law, and Blackstone's Commentaries, Vol. I. *Second and third years*, Smith and Pollock on Contracts. Underhill on Torts.

5. MEDICAL JURISPRUDENCE.—Two lectures a week during the third year. Text-book—Taylor's Medical Jurisprudence.

6. REAL PROPERTY.—One lecture a week during first year. Text-book—Williams on Real Property. During second and third years, two lectures a week. Text-books—Leith's Blackstone; Dart's Vendors and Purchasers.

7. EQUITY.—One lecture a week during first year; two lectures a week during second and third years. Text-books—Smith's Manual of Enquiry; Snell's Principles of Equity; Taylor's Equity Jurisprudence.

Prizes will be given to the students of the first year standing first and second at the written examinations, at the close of the session.

Graduates in Arts, being Baaristers-at Law, will be admitted to the degree of LL.B. upon passing an examination on the following subjects:—Taswell-Langmead's English Constitutional History; May's Constitutional History; Russell on Crimes; Justinian's Institutes (Sandar's edition); Tomkins and Jenckens' Compendium of Roman Law; Wheaton's International Law; Pollock on Contracts, Underhill on Torts; Dart's Vendors and Purchasers; Snell's Principles of Equity; Taylor's Equity Jurisprudence; Maine's Ancient Law.

Candidates are required to send notice to the Registrar of their intention to attend this examination by the 20th day of March.

FACULTY OF THEOLOGY.

Matriculation and Pass Examinations begin on Wednesday, 3rd November.

The prescribed order of classes must be observed by all students who are candidates for the degree of Bachelor of Divinity.

I.—DIVINITY.

Lectures on the Canonicity, Authenticity, Genuineness and Credibility of the Biblical Records; the Inspiration and Authority of the Scriptures; Systematic Theology; the Pastoral Office, and Homiletics—with prelections and examinations on Hill's Lectures in Divinity.

II.—HEBREW AND CHALDEE.

FIRST YEAR.

Wolfe's Hebrew Grammar.
Gen. I., XXXI.
Ruth I., II.
1 Sam. III., IV.
Ps. XCVIII.—CV.

SECOND YEAR.

Gesenius' Hebrew Grammar.
Lev. XXIV., XXV.
Deut. III., IV.
Jer. XIX., XX.
Prov. XII., XIII.
Is. VII.
Ps. LXXX.—XCVII.

THIRD YEAR.

Gesenius' Hebrew Grammar.
Winer's Chaldee Grammar.
Is. L.—LXIII.
Ps. I.—XXX.
Job XXXVIII., XXXIX.
Dan. II., III., VII.

III.—APOLOGETICS.

Lectures on Fundamental Apologetics.

IV.—BIBLICAL CRITICISM.

1. O. T. Exegesis—Isaiah XXIV.—XXXV. Zechariah and Malachi in LXX. Lectures.

2. New Testament Exegesis—The Gospels of Matthew, Mark, Luke, John, The Epistles I. Peter, II. Peter ; I. John, II. John, III. John ; Jude. Lectures on New Testament Canon, Introduction, Criticism.

V.—CHURCH HISTORY.

From the Council of Nicea to the Reformation.

The Church requires the following discourses to be delivered during the Course :—Homily ; Lecture and Greek Exercise ; Sermon and Hebrew Exercise.

MATRICULATION.

1885-86—Westminster Confession ; Hill's Lectures, Book I. ; Acts 1-12, in Greek and English ; Examination in Hebrew on Regular Verb and Pronouns, and Genesis, ch. 1., with analysis of the Regular Verbs and Pronouns contained in it.

PASS EXAMINATION.

On the work of the Session.

DEGREE OF BACHELOR OF DIVINITY.

REGULATIONS.

I.—Candidates for the degree of Bachelor of Divinity (B.D.), must be Graduates in Arts of this University, or of a University whose degrees are recognized by the Senate.

II.—The degree shall not be conferred until the candidate has completed his theological curriculum, with a view to the ministry in the Church to which he belongs, and has passed a satisfactory examination in the branches of Theology taught in the University.

III.—The subjects of examination shall be in two departments: the first embracing—(1) Church History. (2) Biblical Criticism, and (3) Systematic Theology.

IV.—Candidates who have completed the theological course may be examined in either of these departments, and may defer their examination in the other department, provided there be not a greater interval than two years between their two examinations.

V.—Students who have completed all the Sessions but one, of their theological course, may be admitted to examination in the first department.

VI.—A candidate may, subject to the preceding regulations, appear at any University examination in Theology, provided he gives two weeks' notice of his intention, to the Registrar.

VII.—When a student, who is a candidate for the degree, shall obtain at a pass examination, on any subject, two-thirds of the marks allotted to the subject, he may, on recommendation of the examiner, be exempted from further examination on that subject.

SUBJECTS OF EXAMINATION.

DEPARTMENT I.

1. Evidences of Religion, Biblical Introduction, and Inspiration of Scripture.
2. Hebrew, Isaiah xl.—lxvi. Chaldee, Daniel ii., iii., vii.

DEPARTMENT II.

1. Church History—Centuries i.—iii.; the Reformation; the Church in Scotland.
2. Biblical Criticism—Epistle to Romans, in Greek; Biblical Hermeneutics; Hammond's Textual Criticism of New Testament; Introduction to Pentateuch and Gospel of John; the Latter Prophets in LXX.

3. Systematic Theology—Person of Christ, Doctrine of Sin, Doctrine of the Atonement, Justification, Work of the Holy Spirit.

The following books may be consulted :—Paley's Evidences, Butler's Analogy, Tulloch's Burnett Prize on Theism, Mozley's Bampton Lectures on Miracles, Trench on the Miracles (preliminary essay), Westcott on the Canon of the New Testament, Lee on Inspiration, Dorner on the Person of Christ, Liddon's Bampton Lectures on Our Lord's Divinity, Tulloch on the Christian Doctrine of Sin, Crawford on the Atonement, Grotius de Satisfactione Christi, Hill's Lectures in Divinity, Christian Dogmatics (Van Oosterzee's and Martensen's), Keil on the Old Testament, and Bleek on the New Testament, Killen's Old Catholic Church, Fisher's History of the Reformation, Biblical Hermeneutics (Elliott & Harsha).

GRADUATION IN MEDICINE.

The Degree of Doctor of Medicine (M.D.) is conferred upon candidates who comply with the following regulations :

I.—Except as provided in the next regulation, every candidate must pass a matriculation examination upon the following subjects :

English Language, Grammar and Composition.

Arithmetic, to the end of Decimal Fractions.

Algebra, to the end of Simple Equations

Geometry, first two books of Euclid.

Latin, same as Matriculation in Arts, or a full equivalent

Options.—Either Natural Philosophy, as in Stewart's
Physics, or one book in Greek, French or German.

II.—Graduates from a recognized University are not required to pass the above Matriculation examination and a certificate of having passed the examination before the college of Physicians and Surgeons of Ontario, or of Quebec, will be accepted by this University.

NOTE.—As the Royal College of Physicians and Surgeons (England) requires Physics in Matriculation those intending to take its degree should pass in Stewart's Physics.

III.—Candidates who are not graduates in Arts must furnish evidence of having attended some recognized Medical School for not less than four full sessions, and must pass all the required examination

Candidates who are graduates in Arts will be required to attend only three sessions.

EXAMINATIONS.

IV.—The examinations required are a Primary, an Intermediate, and a Final.

1. The Primary examination is upon the subjects of Botany, Theoretical Chemistry, Practical Chemistry, and Physiology. One session in Botany, two in Theoretical Chemistry, and two in Physiology are required.

2. The Intermediate Examination is upon Anatomy, Materia Medica, Medical Jurisprudence and Histology, and is open to students only at the close of their third session. Two sessions in Medical Jurisprudence, in Anatomy and in Materia Medica are required. Students who are graduates in Arts are allowed to take the Intermediate and the Primary Examinations at the same time.

3. The final examination is open to students at the close of their course, and is upon Practice of Medicine, Surgery, Midwifery, and Sanitary Science. Two sessions' attendance upon each is required.

V.—A candidate cannot be admitted to any of the foregoing examinations, until he has furnished satisfactory evidence of having complied with the regulations in regard to Matriculation.

PRIZES.

Besides University Prizes, Medals, etc., open to Medical students, the following prizes are offered by the Faculty every year, viz. : Two House Surgeoncies of the Kingston Hospital—six months each—and two Demonstratorships of Anatomy, value \$60 each. These prizes are awarded to the four Students making the highest number of marks at the second professional examination.

NOTICES.

1. The examinations of the Medical Council will be held in the City of Kingston as well as in Toronto, so that students of this College will be saved the trouble and expense of attending examinations in Toronto.

2. Persons desiring to obtain full information respecting the curriculum in Medicine, Fees, etc., should apply to the Registrar or to the President of the Medical Faculty.

SCHOLARSHIPS.

SCHOLARSHIPS IN ARTS.

No Scholarship can be obtained without attendance in the Subject or Subjects in which the Scholarship is awarded.

Any student who passes in English is eligible for a scholarship; but scholarships marked *close* can be held only by students having in view the ministry of the Presbyterian Church, being given by the founders upon that condition.

Scholarships awarded upon matriculation examinations are tenable during the first session, and those awarded upon sessional examinations are tenable during the following session, except *open* scholarships, gained by students in the last year of their course in Arts, which are paid at once.

Successful candidates for scholarships must make *at least* two thirds of the number of marks allotted to the subject or subjects upon which the scholarship is awarded.

I. JUNIOR MATRICULATION SCHOLARSHIPS.

MACKERRAS MEMORIAL.

Founded in memory of the late Professor Mackerras Value, \$100. Awarded upon the matriculation examinations in Latin and Greek.

GUNN.

Given by Alexander Gunn, Esq., M.P. Value, \$100. Awarded upon the matriculation examination for General Proficiency.

WATKINS.

Founded by the late John Watkins, Esq., Kingston. Value, \$80. Awarded upon the matriculation examination in Classics, Mathematics and English, and tenable only by candidates who have spent one year at the Kingston Collegiate Institute.

LEITCH MEMORIAL NO. 1.

Founded in memory of the late Principal Leitch. Value, \$57. Awarded upon the matriculation examination in Mathematics.

SENATE NOS. 1, 2 AND 3.

These Scholarships, worth over \$100 each are not paid in money. They exempt from Class and Registration Fees for the four years' course.

MOWAT.

Founded by the late John Mowat, Esq., Kingston. Value, \$50. Awarded to the best candidate at the special oral examination on Arithmetic. Competition will take place on 9th October.

MARION STEWART M'DONALD.

Founded by John S. McDonald, Esq., Fond du Lac, Wis. Value, \$100. Given to a deserving student or students from Glengarry Co., Ont., and awarded after the matriculation examinations.

M. C. CAMERON.

Founded by M. C. Cameron, Esq., M.P. Value, \$60. Given to the best Gaelic scholar, reader or speaker. The examination takes place after the matriculation examinations.

M'NAB AND HORTON.

Awarded after the matriculation examinations on the nomination of the Kirk-Session of Renfrew.

II. SCHOLARSHIPS AWARDED ON SESSIONAL EXAMINATIONS.

FOUNDATION NO. 1.

Value, \$50. Awarded upon the Sessional Examination in Junior Latin.

FOUNDATION NO. 2.

Value, \$50. Awarded upon the Sessional Examination in Junior Greek.

FOUNDATION NO. 3.

Value, \$50. Awarded upon the Sessional Examination in Senior English Literature.

ST. ANDREW'S CHURCH, TORONTO. (CLOSE.)

Given by the session of St. Andrew's Church, Toronto. Value \$50. Awarded upon the Sessional Examination in Senior Greek.

TORONTO. (CLOSE.)

Founded by the Ladies' Association of St. Andrew's Church, Toronto. Value, \$60. Awarded upon the Sessional Examination in Senior Latin.

GLASS MEMORIAL. (CLOSE.)

Founded in memory of the late Henry Glass, Esq., of Sarnia, by his widow. Value, \$35. Awarded upon the Sessional Examination in Junior Mathematics.

M'INTYRE. (CLOSE.)

Founded in 1876 by Mrs. Margaret W. McIntyre, Perth, Ont. Value, \$24. Awarded upon the Sessional Examination in Senior Mathematics.

FOUNDATION NO. 4.

Value, \$50. Awarded upon the Sessional Examination in Junior Philosophy.

FOUNDATION NO. 5.

Value, \$50. Awarded upon the Sessional Examination in Junior Physics.

FOUNDATION NO. 6.

Value, \$50. Awarded upon the Sessional Examination in Junior Chemistry.

NICKLE.

Given by William Nickle, Esq., Kingston. Value, \$50. Awarded upon the Sessional Examination in Natural Science.

CATARAQUI.

Given by a friend in Kingston. Value, \$50. Awarded upon the Sessional Examination in History.

SCHOLARSHIPS IN THEOLOGY.

I. MATRICULATION SCHOLARSHIPS.

DAVID STRATHERN DOW.

Founded in 1876 by David Strathern Dow, Esq., Whitby, Ont. Value, \$100.

BUCHAN NO. 1.

Founded in 1875, by bequest of the Rev. Alexander Buchan, Stirling, Ont. Value, \$90.

BUCHAN NO. 2.

Founded by Rev. A. Buchan. Value, \$75.

BUCHAN NO. 3.

Founded by Rev. A. Buchan. Value, \$60.

DOMINION.

Founded in 1870 by a gentleman now resident in Nova Scotia. Value, \$70.

II. SCHOLARSHIPS AWARDED AT CLOSE OF SESSION.

ANDERSON, NO. 1.

Given by Robert Anderson, Esq., Montreal. Value, \$50. Awarded upon the Sessional Examination in Second Year Divinity.

ANDERSON, NO. 2.

Given by Robert Anderson, Esq. Value, \$30. Awarded upon the Sessional Examination in Junior Divinity.

ANDERSON, NO. 3.

Given by Robert Anderson, Esq. Value, \$20. Awarded upon the Sessional Examination in Third Year Divinity.

HUGH M'LENNAN.

Given by Hugh McLennan, Esq., Montreal. Value, \$25. Awarded upon the best Sessional Examination in Church History.

CHURCH OF SCOTLAND, NO. 1.

Given out of funds granted by the Colonial Committee. Value, \$40. Awarded upon the Sessional Examination in Second Year Hebrew.

CHURCH OF SCOTLAND, NO. 2.

Given out of funds granted by the Colonial Committee. Value, \$40. Awarded upon the Sessional Examination in Third Year Hebrew and Chaldee.

MACKERRAS MEMORIAL PRIZE.

Given by the congregation of Williamstown, in memory of the late Professor Mackerras. Awarded upon the Sessional Examination in Greek Testament Exegesis. Value, \$25 in books.

RANKINE.

Founded in 1881 by the late Alexander Rankine, Esq., Leamington, Eng. Value, \$55. Awarded upon the Sessional Examination in Apologetics.

LEITCH MEMORIAL, NO. 2.

Founded in 1867 in memory of the late Principal Leitch, by subscribers in Scotland and Canada. Value, \$80. Awarded upon a Sessional Examination, and tenable during three successive years, should the successful candidate, after the completion of his theological curriculum at this University, continue his studies at this or any European University. Candidates must have the degree of B.A. The next competition will take place in April, 1886. Subjects of examination:—The Epistle to Romans and Hebrews in Greek, Psalms I.—XXV., in Hebrew, Butler's Analogy, and the Theological Lectures of the session.

SPENCE.

Founded in 1879 by the late Rev. Alex. Spence, D.D., formerly minister of St. Andrew's Church, Ottawa. Value, \$60. Awarded upon the Sessional Examination for general proficiency at the close of the first year in Theology. Tenable during the second and third year in Theology. The next competition will take place in 1886.

 CHURCH BURSARIES.

These are awarded to students, who have not obtained scholarships, and who are preparing for the ministry of the Presbyterian Church in Canada. Recipients must sign a written declaration to repay the money should

they change their intention with regard to the ministry. Recommendations accompanying contributions for the benefit of particular students, whether matriculants or not, are duly observed. (See By-laws.)

UNIVERSITY PRIZES.

These are prizes in money for literary articles, essays, etc., as specified under each particular prize. The prizes are given at Convocation.

CONDITIONS OF COMPETITION.

1. Competitive papers (except for Thorburn, which see) must be given in to the Secretary of the Senate not later than the 7th November.

2. Each paper is to bear a motto, instead of the author's name, and to have attached to it a sealed envelope, bearing the same motto and containing a written declaration over the author's signature, to the effect that it is his unaided composition.

3. The envelope attached to successful papers shall be opened and the writer's name made known at the closing Convocation of the session.

4. The best productions must be reported by the examiners to be of sufficient merit.

5. All successful productions shall be the property of the University, and be at the disposal of the Senate.

LEWIS.

Value, \$25. Given for the best lecture on Matthew XVII., 1-8 inclusive. Open to students of Theology registered in session 1886-7.

MACPHERSON.

Value, \$25. Given by the Hon. David L. Macpherson, Toronto, for the best essay on the influence of Britain on India. Open to registered students of the present or preceding session.

LATIN AND GREEK PROSE COMPOSITION.

Two prizes, each of the value of \$10 in books, open to registered students of the present or preceding session, are offered for competition for the best composition in Latin and Greek prose respectively. Subjects for composition, 1886-7:—Latin Prose, Burke's Speeches, Nabob of Arcot's Debts, from "When at length Hyder Ali found," to "leave it to your general conceptions." Greek Prose, Grote's History of Greece, Chapter LVIII. from "The moment immediately succeeding," to "the operation of Chalkidic sympathies."

THORBURN.

Value, \$40. Given by John Thorburn, Esq., M.A., LL.D. (President of the Ottawa Literary and Scientific Society), for the best history of the County of Frontenac—the history to contain details of such matters as the original characteristics, struggles, etc., of the first settlers; the rise and progress of municipal institutions, mechanics' institutions, benevolent, industrial and other establishments, newspapers, etc.; the first churches, schools, etc.; the development of agricultural and mineral resources; and events of a general character by which the country may have been particularly affected. *Any person may compete.* Competitive papers must be in the hands of the Registrar, Rev. George Bell, LL.D., not later than the 15th February. The successful history, or a copy of it, shall be placed in the archives office at Ottawa.

MEDALS.

No Gold Medal will be awarded to any candidate who fails to obtain three-fourths of the whole number of marks. No Silver Medal will be awarded to any candidate who fails to obtain at least two-thirds of the whole number of marks.

PRINCE OF WALES' GOLD MEDAL IN CLASSICS.

For the best examination on the honour work in Latin and Greek. Open to all registered students.

CARRUTHERS' GOLD MEDAL IN PHYSICS OR MATHEMATICS

Given by John Carruthers, Esq., Kingston, for the best examination on the honour work. Open to all registered students.

CARRUTHERS' GOLD MEDAL IN CHEMISTRY.

Given by John Carruthers, Esq., for the best examination on the honour work in Chemistry. Open to all registered students.

THE MAYOR'S GOLD MEDAL IN MENTAL AND MORAL PHILOSOPHY.

Given last session by J. L. Whiting, Esq., B.A., for the best examination on the honour work in Mental and Moral Philosophy, as prescribed for the session. Open to all taking the honour work in those subjects.

CHANCELLOR'S GOLD MEDAL IN HISTORY AND ENGLISH LANGUAGE.
AND LITERATURE.

Given by the Chancellor for the best examination on the honour work in those subjects, with an essay on "The Royal Prerogative in England." Open to all taking the honour work.

SILVER MEDAL IN POLITICAL ECONOMY.

For the best examination on the honour work in Political Economy. Open to students attending classes in Arts, Law, Medicine or Theology.

PRINCE OF WALES' SILVER MEDAL IN MODERN LANGUAGES.

For the best examination on the honour work in French and German. Open to all taking the honour work.

PRINCE OF WALES' SILVER MEDAL IN NATURAL SCIENCE.

For the best examination on the honour work in Natural Science. Open to all taking the honour work.

PRINCE OF WALES' SILVER MEDAL IN CLASSICS.

For the candidate who stands second in the examination on the honour work in Latin and Greek.

LIST OF STUDENTS—SESSION 1885-86.

IN ARTS.

Those marked with an Asterisk are Students for the Ministry of the Presbyterian Church of Canada.

Name.	Year of Atten- dance.	Summer Residence.	Where Educated.
Allen, Thomas G.....	2	Brockville.....	Brockville H. S.
Armour, James.....	5	Perth.....	Perth C. I.
Ashton, John J.....	4	Darlington.....	Bowmanville H. S.
Bain, Angus U.....	2	Kingston.....	Kingston C. I.
Bain, William G.....	4	Kingston.....	Perth C. I.
Beall, Arthur W.....	2	Columbus.....	Whitby H. S.
*Bennett, Orr.....	4	Peterborough.....	Peterborough C. I.
Booth, John F.....	3	Rochesterville...	Kingston C. I.
*Boyd, John D.....	1	Alexandria.....	Alexandria and St. Catharines.
Brown, Frederick M.....	1	Cataraqui.....	Kingston C. I.
Brokenshire, William H.....	1	Kingston.....	Kingston C. I.
*Buchanan, John H., B.A.....	5	Glen Morris.....	University College, Toronto.
Burns, Samuel S.....	1	Navan.....	Public School.
Burns, William.....	4	Brampton.....	Rochester (Eng). Gr. School.
*Bryan, George J.....	2	Richmond, Que...	St. Francis College.
Camelon, John M.....	1	Maple.....	Richmond Hill H. S.

Name.	Year of Atten- dance.	Summer Residence.	Where Educated.
Carleton, Thomas P.	1	Maple.....	Richmond Hill H. S.
Cameron, C. Alice.	2	Kingston.....	{ Boston Latin School. Kingston C. I.
Cameron, James C.	2	Camerontown.....	Williamstown H. S.
Cameron, William A.	3	Perth.....	Perth C. I.
Carmichael, J. F.	5	Bryson.....	Ottawa C. I.
*Cattanach, James	2	Williamstown.....	Williamstown H. S.
Chambers, Alice	2	Wolfe Island.....	Kingston C. I.
Chown, Stanley S.	1	Kingston.....	Kingston C. I.
Claxton, John A.	2	Inverary.....	Kingston C. I.
Clyde, William, B.A.	5	Cataraqui.....	Kingston C. I.
Copeland, George T.	1	Cornwall.....	Cornwall H. S.
Corkill, Edward J.	4	Loughborough.....	Sydenham H. S.
*Cornett, W. H.	3	Lansdowne.....	Kingston C. I.
*Cosgrove, Thomas A.	3	Millbrook.....	Port Hope H. S.
Cunningham, David.	3	Kingston.....	Kingston C. I.
Carle, William.	1	Campbellford.....	Campbellford H. S.
*Dewar, Donald L.	4	Glensandfield.....	Alexandria H. S.
*Drummond, Daniel R.	1	Almonte.....	Almonte H. S.
Dunlop, John G.	4	Kingston.....	Kingston C. I.
Dunning, Henry N.	3	Napanee.....	Napanee H. S.
Dupuis, Charles B.	3	Kingston.....	Kingston C. I.
Dupuis, Dennis R.	1	Kingston.....	Kingston C. I.
Dyde, George E.	1	Kingston.....	Kingston C. I.

*Dyde, Samuel W., M.A.	Kingston.....	Ottawa C. I.
Echlin, Edward B.	West Flamboro.....	Dundas H. S.
Elliot, Edwin.....	Kingston.....	Kingston C. I.
Fairfield, C. A. D.	St. Catharines.....	St. Catharines C. I.
Farrell, James M.	Kingston.....	Kingston C. I.
Farrell, Jenny.....	Kingston.....	Louise School.
Farrell, T. Harry.....	Kingston.....	Kingston C. I.
*Findlay, John.....	Cataraqui.....	Kingston C. I.
*Findlay, William A.	Lakefield.....	Peterborough C. I.
*Fitzpatrick, Alfred.....	Pictou, N.S.....	Pictou Academy.
*Flemming, David.....	Halifax.....	{ Halifax H. S. and Dalhousie College.
Folger, Howard S.	Kingston.....	Kingston C. I.
Folger, Marion.....	Kingston.....	Private School.
Foxton, Joseph.....	Kingston.....	Kingston C. I.
Fraser, Frank H.	Kingston.....	Dr. Tassie's School, Toronto.
*Gandier, Alfred.....	Fort Coulonge.....	Kingston C. I.
Gardiner, Sidney H.	Kingston.....	Kingston Academy.
Garrett, William R.	Smith's Falls.....	Smith's Falls H. S.
Gillies, John S.	Carleton Place.....	Carleton Place H. S.
*Givan, Arpad.....	Campbellford.....	Campbellford H. S.
Givens, Hannah A.	Kingston.....	Kingston C. I.
Givens, William R.	Kingston.....	Kingston C. I.
Goodwin, Antoinette E.	Kingston.....	Sackville Seminary.
Goodwin, Ernest P.	Kingston.....	Mount Allison College.
Grant, Norman McK.	Stellarton.....	Stellarton H. S.
Griffin, Edward S.	Kingston.....	Kingston C. I.
Haig, Andrew.....	Menie.....	Campbellford H. S.

Name.	Year of Atten- dance.	Summer Residence.	Where Educated.
Hales, James.....	2	Forfar.....	Farmersville H. S.
Hamilton, Maxwell G. . .	4	Peterborough.....	Peterborough C. I.
Hartwell, George E. . . .	2	Westport.....	Farmersville H. S.
Hay, Arthur G.	1	Pinkerton.....	St. Catharines C. I.
Head, John.....	3	Lindsay.....	Sidcot, England.
*Henderson, Johnson, B. A.	7	Nova Scotia	Picou Academy.
*Holdcroft, William T. . .	2	Gananoque.....	Kingston C. I.
Horsey, Herbert E.	4	Kingston.....	Kingston C. I.
Hunter, James M., M. A. .	5	Barrie.....	University of Toronto.
*Hunter, Robert J.	1	Millbrook.....	Peterborough C. I.
*Hyland, David J.	5	Kingston.....	Kingston C. I.
Irving, Lennox.....	5	Pembroke.....	Pembroke H. S.
Jackson, Nelson.....	3	Sunbury.....	Sydenham H. S.
*Johnson, Fred W.	5	Regina.....	Hamilton C. I.
Jones, Arthur W.,	3	Peterborough.....	Peterborough C. I.
Kelly, T. Webster.....	4	Rainham Centre	Dundas H. S.
Kidd, William J.	5	Carp.....	Brockville H. S.
Kilborn, Omar L.	2	Toledo.....	Farmersville H. S.
King, Frank.....	1	Kingston.....	Kingston C. I.
Kirk, Fred. J.	2	Kingston.....	Kingston C. I.
Kirkwood, Daniel H. . . .	3	Pictou, N. S.	Kingston C. I.
Lavell, Harry A.	2	Kingston.....	Kingston C. I.
Leask, Harry.....	2	Orillia.....	Orillia H. S.
Liddell, George L.	1	Cornwall.....	Cornwall H. S.
Lochin, William T.	3	Napanee.....	Napanee H. S.
Macdon, John H.	3	Hamilton.....	Hamilton H. S.

Lochhead, Lachlin T.	2	Napanee.....	Napanee H. S.
Logie, William A.	3	Hamilton	Hamilton C. I.
Madden, John H.	1	Delta.....	Farmersville H. S.
Mahood, Perry.....	1	Kingston.....	Kingston C. I.
Markle, Jacob H.	1	Sydenham.....	Hamilton and Dundas.
Marshall, John.....	4	Cobden	Pembroke H. S.
*Marquis, Thomas G.	5	Chatham, N. B.	Chatham Grammar School.
Merkeley, George E.	1	N. Williamsburg ..	Thiel College.
Miller, John	4	Peterborough.....	Peterborough C. I.
Mills, John H.	1	Lindsay.....	Lindsay H. S.
*Milne, James W. H.	5	Maxwell	Hamilton C. I.
Minnes, James A.	1	Kingston.....	Kingston C. I.
Minnes, Robert S.	1	Kingston.....	Kingston C. I.
Morden, G. Walworth..	2	Picton	Picton H. S.
*Muirhead, John W.	1	Brockville.....	{ Farmersville and Brockville H. S.
McCammon, Fred. J.	1	Kingston.....	Kingston C. I.
McClement, W. T.	3	Kingston.....	Sydenham H. S.
*McDonald, Donald.	1	Williamstown.....	St. Catharines C. I.
*McDonald, John A.	2	Blakeney.....	Almonte H. S.
*McDonell, Allan	1	Camerontown.....	Williamstown H. S.
McEwen, John	4	Franktown.....	Perth C. I.
*McEwen, Thomas	3	Denorestville.....	Albert College.
*McFarland, John F.	3	Pittsburg.....	Kingston C. I.
McFarlane, A. K. H.	2	Dundas	Dundas H. S.
*McKenzie, Archibald.	2	Tiverton.....	McGill College.
McKenzie, Malcolm	3	Tiverton.....	McGill College.
*McKinnon, John	4	Prince Ed. Island..	Prince of Wales College.

Name.	Year of Atten- dance.	Summer Residence.	Where Educated.
*McLean, John M.....	3	Strathlorne.....	Dalhousie College.
*McLeod, Peter A.....	3	Chrysler.....	McGill College.
*McPhail, Donald G.....	1	McPhail.....	Perth C. I.
McPherson, Norman A.....	1	Lancaster ..	Williamstown H. S.
McRae, Thomas W. R.....	4	Belleville.....	St. Catharines C. I.
Nicol, William, B. A.....	7	Cataraqui.....	Kingston C. I.
O'Connor, Charles.....	1	Ottawa.....	Ottawa C. I.
Parker, Frank R.....	3	Stirling.....	Belleville H. S.
*Patterson, William J.....	2	Maxwell.....	Collingwood.
*Phalen, Rannie M.....	1	Cape Breton.....	Pictou Academy.
Pirie, Edwin.....	2	Dundas.....	Dundas H. S.
Pirie, Henry H.....	4	Dundas.....	Dundas H. S.
*Potter, James G.....	2	Halifax.....	{ Halifax H. S. and Dalhousie College.
*Rattray, James.....	3	Kingston.....	Privately.
*Reddon, John A.....	2	Mildmay.....	Owen Sound H. S.
Richards, Salt.....	3	Ottawa.....	Ottawa C. I.
Robertson, Donald M.....	4	Williamstown.....	Brantford C. I.
Ross, Alex. H. D.....	2	Kingston.....	{ Carleton Place H. S. and Kingston C. I.
*Ross, Hugh.....	3	Uxbridge.....	Uxbridge H. S.
*Russell, E. Howard.....	1	Douglstown.....	Chatham (N. B.), H. S.
Ryan, Edward.....	4	Loughborough.....	Sydenham H. S.
*Scott, T. Beckett.....	2	Morris, Man.....	{ Campbellford and Belleville H. S.

*Scott, T. Reid	Aurora.....	Toronto C. I.
Shorey, Edmund C.	Cataraqui.....	Arnprior H. S.
*Sinclair, John A.	Carleton Place	Almonte H. S.
*Sinclair, R. C. H.	Carleton Place.....	Carleton Place H. S.
Smith, Gordon J.	Peterborough.....	Peterborough C. I.
Spooner, Margaret M.	Kingston.....	Kingston C. I.
*Strachan, Daniel	Rockwood.....	Rockwood Academy.
Stuart, William A.	Lancaster.....	Cornwall H. S.
*Sturgeon, Robert J.	Bradford.....	St. Catharines C. I.
Thomas, Henry P.	Belleville.....	Belleville H. S.
Townsend, Harland W.	Loughborough.....	Sydenham H. S.
Watson, Angus R.	Beaverton.....	Toronto C. I.
White, James W.	Branchtown.....	Brantford C. I.
*Whiteman, Richard..	Teeswater.....	St. Catharines C. I.
Wilson, Harry L.	Smith's Falls.....	Smith's Falls H. S.
Young, Fred. McB.	Napanee.....	Napanee H. S.

IN THEOLOGY.

NAME.	Year of Atten- dance.	Residence.
Allan, William	3	Kingston.
Buchanan, John H., B.A.	2	Glen Morris.
Campbell, Neil, B.A.	3	Nottawa.
Cameron, Charles J.	1	Kingston.
Childerhose, Stephen, B.A.	2	Cobden.
Dyde, Samuel W., M.A.	3	Kingston.
Fowler, William J., M.A.	1	Doaktown, N.B.
Gandier, Alfred, B.A.	2	Fort Coulonge.
Givan, Arpad, B.A.	3	Campbellford.
Gow, Robert, B.A.	3	Wallaceburgh.
Grant, Hugh R., B.A.	2	Stellarton, N.S.
Grant, James A., B.A.	3	Guelph.
Henderson, Johnson, B.A.	1	Pictou, N.S.
Hyland, David J.	1	Kingston.
Johnson, Fred. W.	3	Regina.
Lang, George R., B.A.	1	Beckwith.
Millar, David.	3	Scotland.
Milne, James W. H.	1	Maxwell.
Mills, William G., B.A.	2	Lindsay.
McAulay, Alexander, B.A.	3	Pictou, N. S.
McKay, Roderick, B.A.	3	Pictou, N. S.
McKinnon, Malcolm, B.A.	1	Belfast, P.E.I.
McLeod, John, B.A.	3	Belfast, P.E.I.
McRossie, Allan.	2	Kingston.
Paterson, Andrew, B.A.	3	Richmond, Que.
Perrin, Louis, B.A.	2	Kincardine.
Smith, James F.	2	Latona.
Steele, Jacob, B.A.	2	Pinkerton.
Scott, Colin A., B.A.	1	Kingston.

IN MEDICINE.

STUDENTS OF THE ROYAL COLLEGE OF PHYSICIANS AND SURGEONS.

NAMR.	Year of Atten- dance.	Residence.
Adams, J.....	2	Kingston.
Allen, T. G.....	1	Brockville.
Allen, Alfred G.....	3	Kingston.
Anglin, James V., B.A.....	3	Kingston.
Anderson, J. Johnson.....	3	Winchester Springs.
Ashley, Edwin.....	1	Pittsferry.
Baker, T. C.....	2	Wolfe Island.
Beaman, W. C.....	4	Burritt's Rapids.
Bell, John H.....	1	Kingston.
Begg, J. W.....	3	Kingston.
Belch, John A.....	2	Kingston.
Bolton, Albert E.....	2	Newborough.
Bruce, Frederick.....	4	Prince Albert.
Buchanan, H. M.....	1	Kemptville.
Burdette, Harry E.....	4	Belleville.
Cameron, Dan.....	3	Perth.
Campbell, Albert L. D.....	2	Belleville.
Casselmann, Joseph.....	4	N. Williamsburgh.
Chamberlain, W. P.....	1	Morrisburgh.
Chown, Albert P.....	1	Kingston.
Clerihew, Ernest M.....	1	Brockville.
Cloutier, Felix.....	1	Montreal.
Collins, Cornelius.....	4	Hastings.
Connell, James C., M.A.....	1	Dundas.
Connerty, J. Moore.....	4	Jaspar.
Cooke, William H.....	1	North Gower.
Cornell, Stanley S.....	4	Farmersville.
Coy, William.....	4	Kingston.
Cram, George D.....	1	Carleton Place.
Creegan, John G., B.A.....	4	Kingston.
Dame, Alexander A.....	4	Prinyer.
David, William C.....	1	Gananogue.
Dixon, Mortimer L.....	4	Frankville.
Donovan, E. J.....	4	Campbellford.
Dougall, Fred. L.....	2	Battersea.
Downing, William H.....	2	Kingston.
Dowson, William H.....	3	Perth.
Drummond, Peter.....	1	Almonte.

NAME.	Year of Atten- dance.	Residence.
Duff, John	1	Inverary.
Dunning, Jesse . . . . .	.....	Demorestville.
Dupuis, Eugene L.	2	Kingston.
Elliott, Arthur R.	2	Belleville.
Emery, George F.	1	Gananoque.
Errett, Alfred J.	3	Merrickville.
Ferguson, Allan G.	2	Kewatin Mills.
Fisher, A. J.	1	Kingston.
Foley, Declan E.	4	Dresden.
Forrester, William A.	1	Mallorytown.
Foxton, Joseph.	2	Kingston.
Fralick, W. G.	3	Kingston.
Fraser, John B.	1	Brockville.
Freeman, Albert E.	2	Wilmur.
Gallagher, Morton.	3	Harlem.
Galligan, T. D.	4	Arnprior.
Gillis, Angus R.	2	Rowena.
Goold, Arthur J., B.A.	1	Kingston.
Graham, Hedley C. W.	2	Portsmouth.
Grant, Norman M.	1	Stellarton.
Hall, William J.	1	Glen Buell.
Hamilton, J. A.	4	
Hanna, James E.	4	Kemptsville.
Harkness, Fred B.	1	Kingston.
Hart, John F.	2	Osnabruck Centre.
Hart, Michael W.	2	Osnabruck Centre.
Harvie, William D.	1	Galt.
Hay, William, B.A.	2	Paisley.
Heath, Fred. C., B.A.	4	Kingston.
Herald, Wilson.	1	Medicine Hat.
Heslop, John E.	3	Port Dover.
Hilker, Adam E.	1	Port Elgin.
Holdcroft, Joseph.	1	Tweed.
Horsey, Edward H.	2	Guelph.
Jack, George G.	4	Belleville.
James, Michael	3	Perth.
Jamieson, Archibald.	4	Kars.
Jamieson, David	2	Kars.
Jamieson, Thomas J.	2	Kars.
Johnson, W. H.	1	
Keith, Sylvanus.	5	Stellarton, N.S.
Kellock, David.	1	Spencerville.
Koyle, Frank H.	2	Brockville.

NAME.	Year of Atten- dance.	Residence.
Lane, Isaac J.....	4	Bouck's Hill.
Lanfear, Henry O.....	1	Newburgh.
Little, W. C.....	1	
Livingstone, John S.....	2	Belleville.
Lockyer, Charles D.....	2	Toronto.
Mabee, Curtis O.....	3	Odessa.
Mabee, James E.....	3	Odessa.
Mallory, Charlie M.....	2	Escott.
Martin, H. A.....	2	Ottawa.
Mather, William M.....	4	Plainfield.
Maxwell, William J.....	1	Brockville.
Maybee, Millard.....	3	Odessa.
Mellow, Samuel J.....	4	Sillsville.
Mitchell, Harry.....	1	Kingston.
Mundell, David E., B.A.....	4	Kingston.
Mundell, John.....	4	Kingston.
McAmmond, John F.....	2	Easton's Corners.
McCammon, S. H.....	2	Kingston.
McCardel, Edward J.....	4	Dundas.
McEwen, Ewen.....	3	Franktown.
McGillivray, T. Shannon.....	2	Kingston.
McGrath, Edward.....	2	Campbellford.
McGrath, Michael E.....	1	Sunbury.
McKillop, James.....	1	Beachburgh.
McLaughlin, Edward.....	4	Dundela.
McLean, Donald W.....	1	Ottawa.
McVety, Albert F.....	4	Loughborough.
Mavety, Alexander.....	1	Railton.
Neish, William D.....	2	Kingston.
Nicholson, Malcolm.....	1	Springton, P.E.I.
Nimmo, Rev. John H., B.A.....	4	Pittsburgh.
Northmore, Harold S.....	1	Cataraqui.
O'Neill, Thomas.....	2	Belleville.
Paterson, James A.....	1	Tiverton.
Pirie, Alexander F.....	3	Dundas.
Pitblado, Colin.....	4	Halifax.
Polson, Neil C.....	1	Kingston.
Pratt, William F.....	2	Ottawa.
Pratt, Wilton.....	2	Toledo.
Rankin, William H.....	1	Collinsby.
Ranstead, William.....	3	Ottawa.
Robertson, Andrew.....	1	
Robertson, John W.....	2	Mill Haven.

NAME.	Year of Atten- dance.	Residence.
Robinson, R. P.....	2	New Boyne.
Sands, Ernest.....	1	Sunbury.
Scales, Thomas, B.A.....	3	Kingston.
Scott, Patrick J.....	2	Saugeen.
Shaw, John M., B.A.....	4	Kingston.
Smellie, Donald.....	2	Chesley.
Smith, Fred. B.....	4	Cape Vincent.
Smith, James F.....	2	Latona.
Snider, Elias.....	1	Odessa.
Sparks, Frederick.....	1	
Stewart, Alexander.....	1	Douglas.
Stitt, Frank.....	1	Ventnor.
Storms, Douglas G.....	4	Odessa.
Thorne, Stephen H.....	3	Brighton.
Tillman, Harry G.....	1	Kingston, Jamaica.
Truesdell, Abel W.....	1	Gananoque.
Walker, Arch. D.....	2	Belleville.
Walker, Stanley R.....	1	Wilton.
Warner, A. F.....	3	Wilton.
Watts, E. W. J.....	4	Easton's Corners.
Watts, Thomas E.....	1	
White, Albert N.....	4	Kingston.
Whitney, A. W.....	2	Iroquois.
Wright, E. W.....	4	Bath.
Wright, Thomas A.....	2	Westmeath.

STUDENTS OF THE WOMEN'S MEDICAL COLLEGE.

Blaylock, Ella.....	3	New Carlisle, N.B.
Craine, Agnes D.....	2	Smith's Falls.
Dickson, Annie E.....	4	Kingston.
Embury, Elizabeth.....	2	Selby.
Funnell, Ada A.....	3	Trenton.
Lawyer, Annie.....	2	Morrisburgh.
Leavitt, Minnie.....	1	East Hatley.
Lent, Agnes C.....	1	Picton.
Livingstone, Marion.....	3	Kingston.
Marshall, Alice A.....	2	Brockville.
Mitchell, Elizabeth S.....	2	Montreal.
McConville, Isobel.....	1	Kingston.
Ogilvie, Nellie.....	2	Kingston, Jamaica.
Oliver, Marion.....	4	St. Mary's.
Wafer, Grace.....	2	Kingston.

EXAMINATION PAPERS.

SESSION 1885-86.

FACULTY OF ARTS.—JUNIOR MATRICULATION.

Pass Papers.—LATIN.

FIRST PAPER.

I.

Translate :

Sed mihi ne diuturnum quidem quicquam videtur, in quo est aliquid extremum. Cum enim id advenit, tum illud, quod præteriit, effluxit ; tantum remanet, quod virtute et recte factis consecutus sis ; horae quidem cedunt et dies et menses et anni, nec præteritum tempus umquam revertitur, nec, quid sequatur, sciri potest ; quod cuique temporis ad vivendum datur, eo debet esse contentus. Neque enim histrioni, ut placeat, peragenda fabula est, modo, in quocumque fuerit actu, probetur, neque sapienti usque ad 'Plaudite' veniendum est. Breve enim tempus ætatis satis longum est ad bene honesteque vivendum ; sin processerit longius, non magis dolendum est, quam agricolæ dolent præterita verni temporis suavitate æstatem autumnumque venisse. Ver enim tamquam adulescentiam significat ostenditque fructus futuros, reliqua autem tempora demetendis fructibus et percipiendis accommodata sunt.

—CICERO.

1. Parse *effluxit, remanet, sciri, vivendum, demetendis*
2. Explain the syntax of *sequatur, cuique, temporis, eo, histrioni, suavitate*.
3. *Plaudite*. Explain.
4. Translate and explain :—

(a) Apud Lacedæmonios quidem ii, qui amplissimum magistratum gerunt, ut sunt, sic etiam nominantur senes.

(b) Quid ? Qui etiam addiscunt aliquid ? Ut et Solonem versibus gloriantem videmus, qui se cotidie aliquid andiscentem dicit senem fieri.

(c) Avaritia vero senilis quid sibi velit, non intellego ; potest enim quicquam esse absurdius quam, quo viae minus restet, eo plus viatici quaerere ?

II.

Translate :—

- (a) Et jam finis erat : quam Jupiter æthere summo
 Despiciens mare velivolum terrasque jacentes,
 Litoraue et latos populos, sic vertice cœli
 Constitit, et Libyæ defixit lumina regnis.
 Atque illum tales jactantem pectore curas
 Tristior et lacrimis oculos suffusa-nitentes
 Alloquitur Venus : “ O qui res hominumque deumque
 Æternis regis imperiis, et fulmine terres.
 Quid meus Æneas in te committere tantum,
 Quid Troës potuere, quibus, tot funera passis.
 Cunctus ob Italiam terrarum clauditur orbis?
 Certe hinc Romanos olim, volventibus annis,
 Hinc fore ductores, revocato a sanguine Teuceri,
 Qui mare, qui terras omni ditione tenerent,
 Pollicitus : quæ te, genitor, sententia vertit?
 Hoc equidem occasum Trojæ tristesque ruinas
 Solabar, fatis contraria fata rependens.
 Nunc eadem fortuna viros tot casibus actos
 Insequitur. Quam das finem, rex magne, laborum ?

—VIRGIL.

- (b) Ipse solum colui, cujus placidissima lævum
 Radit arenosi Tibridis unda latus.
 Hic, ubi nunc Roma est, incædua sylva virebat :
 Tantaque res paucis pascua bubus erat.
 Arx mea collis erat, quem cultrix nomine nostro
 Nuncupat hæc ætas, Janiculumque vocat.
 Tunc ego regnabam, patiens cum terra deorum
 Esset, et humanis numina mista locis,
 Nondum justitiam facinus mortale fugarat :
 Ultima de superis illa reliquit humum.
 Proque metu populum sine vi pudor ipse regebat ;
 Nullus erat, justis reddere jura, labor.

—OVID..

1. Parse (a) *jacentes, constit, defixit, passis rependens*;
 (b) *pascua, mista, fugarat*.
2. Write notes on *velivolum, sic, meus Æneas, ob Italiam, revocato a sanguine Teuceri*.
3. Explain the syntax of *vertice, lacrimis, oculos, annis, tenerent*.

4. Translate and explain :—

- (a) Manet alta mente repostum
Judicium Paridis, spretæque injuria formæ.
- (b) “Mene incepto desistere victam,
Nec posse Italia Teucrorum avertere regem !
- (c) Vos et Scyllæam rabiem penitusque sonantes
Accestis scopulos ; vos et Cyclopia saxa Experti. *

SECOND PAPER.

I.

1. Parse *ferat, feret, ferret, caedat, cadet, quaerenti, questurus, veneat, veniet, vinxere.*
2. Give the principal parts of *sto, sisto, gaudeo, tego, texo, tango, meto, metior, pendo, orior.*
3. State the gender of *poeta, domus, imago, multitudo, corpus, virtus, manus, grex, lex, mons.*
4. Give the genitive singular of *ego, idem, alius, quidam, quis*, and the meaning of each.
5. Explain the syntax of italicised words in :—
 - (a) *Dimisso exercitu Romam rediit.*
 - (b) *Equum vendidit sex millibus sestertium.*
 - (c) *Equitatum auxilio Cæsari miserant.*
 - (d) *Legatos pacem petitum misit.*
 - (e) *Quis regem occideret rogavit.*
- *6. Construct short Latin sentences to illustrate the use of *qui* with the subjunctive.

*7. Turn into *oratio obliqua* :—

Parce metu, Cytherea ; manent inmota tuorum
Fata tibi ; cernes urbem et promissa Lavini
Mœnia, sublimemque feres ad sidera cœli
Magnanimum Ænean ; neque me sententia vertit.

* Additional for Honours.

II.

Translate into Latin :—

- (a) Who can tell how long they have been waging war by sea and land?
- (b) Do not be afraid to confess that you have often lost opportunities.
- (c) They said that you were the same as you had ever been.
- (d) Do you believe that he has made more promises than he will be able to keep?
- (e) It is said that he led the whole army through the territory of the enemy until he arrived at the foot of the mountain.

*III.

Translate into Latin :—

- (a) Immediately after the burial of his father, the consul set out to join his colleagues in Athens.
- (b) He has long believed that the prisoners should have been spared.
- (c) Having gained the crown he determined to put all his enemies to the sword.
- (d) If at such a crisis he had not consulted the interests of the country, the nation would never have forgiven him.
- (e) It was of the utmost consequence to this country that a man of such high character and such great ability should be at the head of the army.

GREEK.

FIRST PAPER.

I.

1. Decline fully γλωσσα, λύρα, τρόπος, ρόδον and βασιλεύς
2. Mention the contractions that take place in the Second Declension and inflect nouns to illustrate them.
3. Write out the ordinal numbers in Greek, from *first* to *tenth*.
4. Compare the following adjectives:—μέλας, ἀληθής, ἡδύς, ταχύς and the adverbs formed from them.
5. Inflect ἐγώ, σί, οὗ in singular and plural, and give the possessive adjectives corresponding to them.
6. Give the principal parts of: πίνω, πείθω, πάσχω, αγω, ἀμαρτάνω, ἐλαύνω, πίπτω, τέμνω.

II.

Translate into Greek:—

1. The Greeks called the king of the Persians the great king.
2. The moon is smaller than the earth, and the earth than the sun.
3. The whole time of the journey was a year and three months.
4. The thirty tyrants were more unjust than the mob, and slew more citizens.
5. We were marching in silence, then some one saw a few horsemen of the foe, and immediately there arose much noise and fear.

III.

Translate at sight:—Xenophon, B. I., Ch. 2, §§ 7, 8.

SECOND PAPER.

N.B.—Candidates will take either prose extract with Homer.

I.

Translate:—Xenophon B. II., Ch. 3, § § 10-12.

1. Parse *ὠπισθοφυλάκει, ἐνετύγχανον, ἐκπεπτωκότες, ἐξέκοπτον, τεταγμένων, γεγονότες.*
2. Mark the quantity of the penult in *γεφυρῶν, διαβάσεις, φοινίκων, ἐπεστάτει* and *αἰσχύνην.*
3. Give the gender and government of *τάφροις, ὕδατος, τεταγμένων* and *ἔτη.*

II.

Translate:—Xenophon, B. V., Ch. 6, § § 15-18.

1. Parse: *ὀρῶντι, ἐδόκει, προσκλήσασθαι, δεδιώς, καταμείνῃ, ἐκφέρει.*
2. Account for the case of *Ξενοφῶντι, Ἑλλάδι, μάντιν* and *στρατιά.*
3. Mention the leading places on the Pontus, on the line of retreat of the Greeks, and the particular locality referred to in the text.

III.

Translate:—Homer, Il., IV., 292-302.

1. Parse: *εἰπών, λίπεν, βῆ, ἔτετμε, στήθεν, ἔμεν, ἐχέμεν.*
2. Give the Attic forms of: *ἐτάρους, ἰππῆας, ὄχεσφιν, πολέας, πολέμοιο, σφοῖς.*
3. Scan the first three lines.

ARITHMETIC AND ALGEBRA.

1. I buy 400 yards of ribbon at 5 yds. for 3 cents, and sell 180 yds. at 7 yds. for 12 cents. At what price per yard must I sell the remainder so as to gain 75 per cent. on the whole transaction?

2. Find the simplest vulgar fraction equal to

$$\frac{1.\dot{9}\dot{1} \times 1.1\dot{9}}{1.9\dot{1} \times 1.1\dot{9}}.$$

3. Find, to four places of decimals, the value of

$$\frac{\sqrt{2} + \sqrt{0.2}}{\sqrt{0.2} - \sqrt{0.02}}.$$

4. Simplify the expressions—

$$a. (p^2 - q^2)r - (p + q) \{ p(r - q) - q(r - p) \}.$$

$$b. \frac{4x - 3y}{7} + \frac{3x - 7y}{3\frac{1}{2}} + \frac{2x + y}{10\frac{1}{2}} - \frac{x - y}{14} + \frac{53y - 23x}{42}.$$

$$c. \left(\frac{a}{b} + 1 + \frac{b}{a} \right) \left(\frac{a}{b} - 1 + \frac{b}{a} \right) \left(\frac{a^2}{b^2} - 1 + \frac{b^2}{a^2} \right).$$

5. Divide $x^5 - a^5$ by $x - a$, and from your result write down the quotient of $(x + y)^5 - (x - y)^5$ divided by $2y$.

6. Resolve into factors

$$a. x^3 + x^2(a + b + c) + x(ab + bc + ca) + abc.$$

$$b. \frac{a^2}{x} - \frac{x^3}{a^2}.$$

$$c. ab(a - b) + bc(b - c) + ca(c - a).$$

7. Solve the equations in x —

$$a. \frac{x}{x + 1} + \frac{2x}{x - 1} - 3 = 0.$$

$$b. \frac{x + 1}{x + 4} = \frac{2x - 1}{x + 6}.$$

8. If 1 be divided into two parts, prove that their product subtracted from either part will leave the square of that part.

GEOMETRY.

1. Give Euclid's definitions of the following terms :—
A plane rectilineal angle—a circle—a rhomboid.
2. Give examples of what is meant by
an axiom—a postulate—a theorem—reductio
ad absurdum.
3. Show how to bisect a given rectilineal angle.
Thence show how to trisect a right angle.
4. If the square upon one side of a triangle is equal to
the sum of the squares upon the other sides,
these latter sides are perpendicular to one an-
other.
5. If a straight line be divided into any two parts, the
square on the whole line and one of the parts
is equal to twice the rectangle contained by
the whole and that part, together with the square
on the other part.
6. Show how to describe a square equal to a given
rectangle.
7. If a straight line through the centre of a circle
bisects a straight line in it which does not pass
through the centre it cuts it at right angles :
and conversely . . .

Complete this statement and prove it.

8. From a point without a circle to draw a straight
line which shall touch the circle.

How can you obtain a second straight line
satisfying the conditions ?

9. What is the side of a square when increasing the
side by 1 increases the area ten times.

ENGLISH.

FIRST PAPER.

1. Analyse the sentences in the following passage :—

“ Now, yield thee, or by Him who made
 The world, thy heart's blood dyes my blade !—
 Thy *threats*, thy mercy, I defy !
 Let *recreant* yield who fears to die.
 Like adder darting from his coil,
 Like wolf that dashes through the toil,
 Like mountain-cat who guards her young,
 Full at Fitz-James's throat he sprung ;
Received, but *recked* not of a wound,
 And locked his arms his foeman round.
 Now, gallant Saxon, hold thine own ;
 No maiden's hand is round thee thrown !
 That *desperate* grasp thy frame might feel
 Through bars of brass and triple steel !—
 They *tug*, they *strain* ! down, down they go,
 The G  l above, Fitz-James below.
 The Chieftain's *gripe* his throat *compressed*,
 His knee was planted in his breast ;
 His *clotted* locks he backward threw,
 Across his brow his hand he drew,
 From blood and mist to clear his sight,
 Then *gleamed* aloft his *dagger* bright ;—
 But while the dagger gleamed on high
Reeled soul and sense, reeled brain and eye,
 Down came the blow ! but in the *heath*
 The *erring* blade found bloodless *sheath*.
 The *struggling* foe may now *unclasp*
 The fainting Chief's *relaxing* grasp ;
Unwounded from the dreadful *close*
 But breathless all, Fitz-James arose.”

2. Parse the words in italics, explain the meaning and give the derivation of each.
3. Where is Vennachar and Doune ?
4. Who were Fitz-James and Rhoderick Dhu ?
5. Give an outline of the V. Canto.
6. Why is King James called “ the Commons King ? ”

7. "The Chief in silence strode before,
And reached that torrent's sounding shore,
Which, daughter of three mighty lakes,
From Vennachar in silver breaks,
Sweeps through the plain, and ceaseless mines
On Bochastle the mouldering lines,
Where Rome, the empress of the world,
Of yore her eagle wings unfurled."

Explain "daughter of three mighty lakes." Also,
"Bochastle where Rome her eagle wings unfurled."

8. Explain the following terms: Fitting weeds, I must
be boune, palfrey, Morrice dances, jennet, barret
cap, banshie, coronach, bracken, cairn, gosshawk,
henchman, pibroch, ptarmigan, talisman, glaive.

SECOND PAPER.

1. Cowper is called the poet of the domestic circle.
Explain this.
2. Mrs. Oliphant says of Cowper that 'he was in his
way a transforming influence, a new beginning
of intellectual life and power.' What is meant?
3. Write an essay on Scott's poetry especially in re-
ference to the "Lady of the Lake."

HISTORY AND GEOGRAPHY.

FIRST PAPER.

1. State the principal events of the Persian wars, and
what were the results of these wars on Greece?
2. Name the different States of Greece, and draw an
outline map showing the position of each State.
3. Name the principal Greek Colonies.

4. What was the more immediate occasion of the Peloponnesian war?
5. From what country was Carthage a colony?
6. What occasioned the outbreak of the Punic wars? Name the leading commanders on either side.
7. State when Consuls and also Tribunes were first appointed. What were their respective powers?
8. Why were the Decemviri appointed?
9. Name the principal towns of Magna Græcia.

SECOND PAPER.

1. What races made settlements in England? Give the dates of these settlements respectively.
2. Give a list of the Sovereigns of England, classifying them under their respective dynasties.
3. Name the several Kingdoms of the Heptarchy. When were they united under one king?
4. What were the claims of James I. to the English crown?
5. What was the Act of Supremacy? When was it passed? What was the result of its operation?
6. Give a short account of the reign of Charles I.
7. What was the Declaration of Rights? State its principal conditions.
8. By what treaty was Canada ceded to Britain?
9. Name the capitals of the different States of Europe, and the rivers on which they are situated.
10. State the courses of the following rivers: Garonne, Volga, Oder, Tagus, Vistula, Danube, Dneiper, Elbe, Don, Weser and Gotha.

FRENCH.

I.

1. What difference of meaning is there in *ou, a, la, des, sur* and *du* with and without the accent?
2. Mention the nouns in *ou* that take *x* in the plural.
3. Distinguish the meanings in the double plural of *aïeul, ciel, œil, appât* and *travail*.
4. Form the feminine of the following nouns: *âne, Suisse, prêtre, hôte, chanoine, chanteur, compagnon, loup, serviteur*.
5. Mention some nouns that vary the meaning with the gender.
6. Compare the adverbs *bien, mal, beaucoup, peu*.
7. Inflect fully the present and definite past indicative and the imperative of the reflexive *se laver*.
8. Give the principal parts of: *courir, mourir, battre, suivre, croître, naître, coudre, vivre, lire, traire*.
9. Translate into French:—

Do you speak French? No, sir, I speak English only; I wish I could speak French. Why do you not finish your exercise? I do not finish it, because I have no time. It seems to me that you always have enough time to play. I advise you to study first, and play afterwards. Thank you, sir, for your good advice; I shall follow it hereafter.

II.

Translate:—Bonnechose, Lazare Hoche, from “*En face de*” to “*horrible dénûment*.”

1. Parse: *conçut, vit, vaincre, atteindre, accourait, reconnaître*.
2. *l'historien*. Who?
3. *bestiaux*. What is to be noted in this form?
4. *à travers*. Give an equivalent expression.

III.

Translate at sight:—Lamartine, Voyage en Orient, from “Les Druses” to “ses ennemis.”

GERMAN.

I.

1. Give rules for the déclension of nouns and decline Kunde, Knabe, Graf, Lampe, Bauer, Student, General, and Haus.
2. Illustrate, by examples, the government of the genitive, dative and accusative by prepositions, and show how some prepositions combine with articles.
3. (a) Give rules for determining the gender of nouns.
(b) Decline Goethe, Schiller, Count Charles, and Mr. Henry Meyer.
4. Decline ich, du and er, singular and plural.
5. Illustrate, by examples, the difference between sein and werden, with the past participle passive.
6. Give the principal parts of geben, essen, fressen, treten, beginnen, laufen, bitten, bieten, bleiben, fallen, bringen, denken and steigen.
7. What verbs generally form the perfect with sein?—with haben? Give several examples of the use of impersonal verbs.
8. Mention the inseparable particles. Show how inseparable verbs differ from separable in arrangement and accent.

9. Translate into German :—Schiller died on the ninth of May, one thousand eight hundred and five. He was forty years of age when he died. Have you read his poems? Which is the greater poet, Schiller or Goethe?

II.

Translate :—

Schiller, (a) Der Kampf mit dem Drähen. Stanza 22.

“ (b) Der Taucher. Stanzas 23, 24.

“ (c) Die Belagerung von Antwerpen: from
“Unterdessen wurde” to “Lande zu
versperren.”

HONOUR PAPERS.

LATIN.

I.

Translate :—Livy, B. IX., 17, to imperium.

- (1) Parse *quaesitum, plurimum, intuenti, praestant*.
- (2) Explain the syntax of *justo, distinguendo, legentibus, foret bellatum, fuerit*.
- (3) Discuss briefly Livy's merits as a historian.

II.

Translate :—Horace, Odes, I. 28, 6-26.

- (1) Parse *occidit, refixo, testatus, mixta, densentur, fugit*.
- (2) Account for the case of *Orco, te, exitio, senum*.
- (3) Write notes on *Pelopis genitor, Tithonus, Panthoiden, Proserpina*.

III.

Translate :—Ovid, *Fasti*, I. 557-568.

- (1) Parse *pendent, fracti, objice, nititur, evulsum, æthera, icta*.
- (2) Explain the syntax of *Jove, movissent, pondere*.
- (3) *Cælum quoque sederat illis*. Explain.

IV.

Translate at sight :—Livy, B. X., 16 to *esset*.

GREEK.

I.

Translate :—(a) Demosthenes, *In Aphobum*, I. § 53.

(b) *Id.*, *In Aphobum*, II., §§ 18, 19.

1. Parse (a) κατορωρυγμένα, προσδοκήσαιμι, ἐρεῖν, ῥηθησομένων, ἦττον; (b) παραδοθείδη, προσγεγεννημένην διημαρτηκότας, ἀπεστερημένους, ὄφλωμεν.
2. Explain the syntax of (a) Πολλὰ, δέον, ἕτερά, αὐτοῦ, ῥηθησομένων; (b) φθονήσεις, τούτου, ὄφλωμεν, γένησθε.
3. Write notes on δικασταί, διαιτητής, ἐπωβελία, ὑποκείμενα, ἀντίδοσις, διαδικασία.
4. Give some account of the early life of Demosthenes, as derived from the speeches against Aphobus.

II.

Translate :—Homer, *Odyssey*, IX., 318-324.

1. Parse ἔκταμεν, φοροῖη, αὐανθέν, παραστάς, παρέθηχ', ἀποξῦσαι, κέχυτο, πεπαλάσθαι, ἐλέσθαι.

2. Explain the construction of ὁσόν θ' ἴσθόν, μῆκος, εἰσοράσθαι, τολμησείεν, ἤθελον.
3. Write notes on διερωῶ, ὑπερφιάλων, λάχεια, ἡλίβατος, ἀρημένοσ.

III.

Translate at sight:—Xenophon, Anab. III., 2, §§ 11-13.

MATHEMATICS.

FIRST PAPER.

1. Divide:—

$x^2(y+z) - y^2(z+x) + z^2(x+y) + xyz$ by $x - y + z$;
and express $a^5 + 15a^4 + 90a^3 + 270a^2 + 404a + 241$ in
terms of b when $b = a + 3$.

2. Put into factors:—

$$x^4yz + y^4zx + z^4xy - x^3y^3 - y^3z^3 - z^3x^3.$$

If the 4th power of any number be diminished by 5 times its square and increased by 4, the product of the result by the number itself is the continuous product of 5 consecutive numbers.

3. If $\frac{a^2 - bc}{a(1 - bc)} = \frac{b^2 - ca}{b(1 - ca)}$, then each fraction is equal
to $a + b + c$.

4. Free from surd denominator the expression $\frac{3\sqrt{2} - 4}{3 - 2\sqrt{2}}$

If $x + y = a + b$ when x, a are rational and y, b surds,
then $x - y = a - b$.

5. If $w = -\frac{1}{2}(1 + \sqrt{-3})$, show that $w^2 + w = -1$.
6. If $ax^2 + bx + a = 0$ prove that the two values of x are reciprocals of one another; and find the relation between a and b when the two roots of the quadratic are the same.

7. From the equations $bx + ay = c$ and $a(b - y) = b(a - x)$ eliminate a and b and express the simplest relation connecting x , y and c .
8. Given $x + y + xy = 34$ and $x^2 + y^2 - (x + y) = 42$ to find x and y .
9. The sides of a triangle being denoted by a , b , c find expressions for the distance from the foot of any perpendicular to the middle of the side upon which it falls.
10. Prove that $a^2 + b^2 + c^2 > ab + bc + ca$ whatever may be the real numbers denoted by a , b and c .

SECOND PAPER.

1. State and prove Euc. II., 12.
If A be the obtuse angle, and a the side opposite, show that this theorem is equivalent to the formula $a^2 = b^2 + c^2 + 2bc \cos A$.
2. If two circles touch one another externally the line joining their centres passes through the point of contact.
What is the relation between a point of contact of two circles and a point of intersection?
3. The angle in a semi-circle is a right angle.
If any six-sided figure be inscribed in a circle the sum of three alternate angles is four right angles.
4. Triangles with equal altitudes are to one another as their bases.
Triangles with equal bases are to one another as their altitudes.
5. Similar triangles have their areas to one another in the duplicate ratio of their homologous sides.
Given the base and altitude of a triangle as b , p , to find where a line must be drawn parallel to the base so as to bisect the triangle.

6. Given $\cos \theta = \frac{1}{3}$, to find the values of $\sin \theta$ and $\tan \theta$.
7. The angles of a triangle being denoted by A, B, C , and the sides opposite by a, b, c , prove the relations
 - (a) $\sin A : \sin B :: a : b$.
 - (b) $a = b \cos C + c \cos B$.

ENGLISH.

1. To what period of Shakespeare's writings does Coriolanus belong? Give reasons for your assignment of date.
2. From what source did Shakespeare obtain his information?
3. Under what circumstances did Caius Marcius receive the surname Coriolanus?
4. Explain the following sentences:
 - "We are accounted poor citizens, the Patricians good."
 - "He is a very dog to the commonalty."
 - "What shouts are these? the other side of the city is risen."
 - "Rome and her rats are at the point of battle; one side must have bale."
 - "And let me use my sword I'll make a quarry with thousands of these quartered slaves."
 - "Then we shall ha' means to vent our musty superfluity."
 - "Being moved he will not spare to gird the gods."
 - "The present war devours him; he is grown too proud to be so valiant."
 - "Heaven bless my Lord from fell Aufidius."
 - "Mend and charge home."
 - "Then let the pebbles on the hungry beach
Fillip the stars; then let the mutinous winds

Strike the proud cedars 'gainst the fiery sun,
Murdering impossibility."

"Come leave your tears ; a brief farewell ; the beast with
many heads butts me away."

"How could'st thou in a mile confound an hour, and bring
thy news so late?"

"O, tis Marcius :

"Let's fetch him off, or make remain alike."

"If you see this in the map of my microcosm, follows it
that I am known well enough too? What harm can
your bisson conspectuities glean out of this character?"

"Meeting two such wealsmen as you are."

"You shall not be the grave of your deserving."

"Their bands i' the vaward are the Antiates."

6. Quote the lines in which Cominius tells of the bravery of Coriolanus, beginning: "I shall lack voice, the deeds of Coriolanus should not be uttered feebly." Also those in which his mother Volumnia entreats him to reconciliation with Rome, and beginning: "Nay go not from us thus. If it were so that our request did tend to sense the Romans."
7. Write a criticism on the character of Coriolanus.

HISTORY AND GEOGRAPHY.

1. Mention the leading wars of the Tudor period, both foreign and civil, and state their results.
2. What were the claims of Lady Jane Grey to the English crown?
3. Give a short sketch of the Courts of High Commission, and of the Star Chamber.
4. When was the Habeas Corpus Act passed?
5. What were the terms of the Petition of Right?

6. What was the tax of Ship money? Why was the levying of it by Charles I. illegal?
7. Tell what you know of Hampden, Elliot, Laud, Strafford, Algernon Sydney, and Lord Russell.
8. Name the British Colonies, and their respective Capitals.
9. By what treaty was Canada ceded to the British?

FRENCH.

I.

Translate:—Lamartine, *Christophe Colomb*, Ch. 38, from “*Puis il baptisa*” to “*leurs victoires.*”

II.

Translate into French:—

Tyrian Carthage (for so we may call it, to distinguish it from the more modern Roman colony), was built upon a peninsula, united by an isthmus to the mainland. The circuit of the city was about twenty-three miles, but it did not cover the whole of the peninsula. The portion occupied by the city appears to have been the northern part, while the southern was a suburb, called Megara, chiefly covered with gardens. The city itself was divided into two parts: the citadel, called Borsa, and the quarter of the harbour. It seems almost certain that the harbours, which were two in number, were on the north of the isthmus.

III.

Translate at sight:—Voltaire, *Siècle de Louis XIV.*, from “*Mais dans*” to “*troupes fugitives.*”

GERMAN.

N.B.—Candidates may take either I. or II. with III.

I.

Translate:—Schiller, *Wilhelm Tell*, Act IV., Scene I., from “*Ich sah's*” to “*verhindert haben.*”

II.

Translate:—Fouqué, Die beiden Haupleute, from “Herzog Alba” to “vorwärts, Kinder!”

III.

Translate at sight:—Schiller, Egmont's Leben und Tod, from “Zwei so” to “sein Koenig.”

EXAMINATION FOR MOWAT SCHOLARSHIP, 1885.

1. Reduce to a repeating decimal $\frac{3\frac{1}{2}}{2\frac{2}{3}} \times \left\{ \frac{2\frac{1}{2}}{3} \div \frac{4\frac{1}{2}}{7\frac{1}{2}} \right\}$
2. Multiply 0.0132 by 0.00967, and divide 0.3412 by 0.007134; each to 5 decimal places.
3. What fraction of 2mls., 3fur., 6ft. is 327yds. 2ft. 4in.?
4. If 1 bushel of grain sows 3ac., 2r., 10p. of land, how many acres, roods, etc. will 4bu., 3pks., 1qt. sow?
5. The ratio of the circumference of a circle to its diameter being 3.141592, and the diameter of the earth being 7,960 miles, find, to three decimals, the length of a degree, in miles, and of a second of an arc, in feet, upon the earth's surface.
6. Which is most advantageous, to invest in 3 ¤ cents at 80, or $3\frac{1}{2}$ ¤ cents at 98; and, how much is invested when the difference of income is \$100?
7. The wheels of a carriage are 12ft., 4in. and 15ft. 6in. in circumference. What is the least distance, in feet, in which both wheels will make an exact number of revolutions?

CORRIGENDA.

1. At the end of page 32 add

HONOURS.

Critical reading of one of Shakespeare's plays,

1886.—Merchant of Venice.

1887.—Timon of Athens.

1888.—Julius Cæsar.

1889.—As You Like It.

1890.—Coriolanus.

2. Remove Senior Matriculation, 12 lines, at the head of page 33, and read them between the two paragraphs on Senior Matriculation on page 35, prefixing the word "English."

CALENDAR

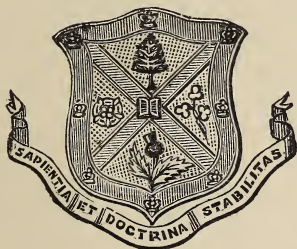
OF

Queen's College and University,

KINGSTON, CANADA,

For the Year 1886-87.

PART II.

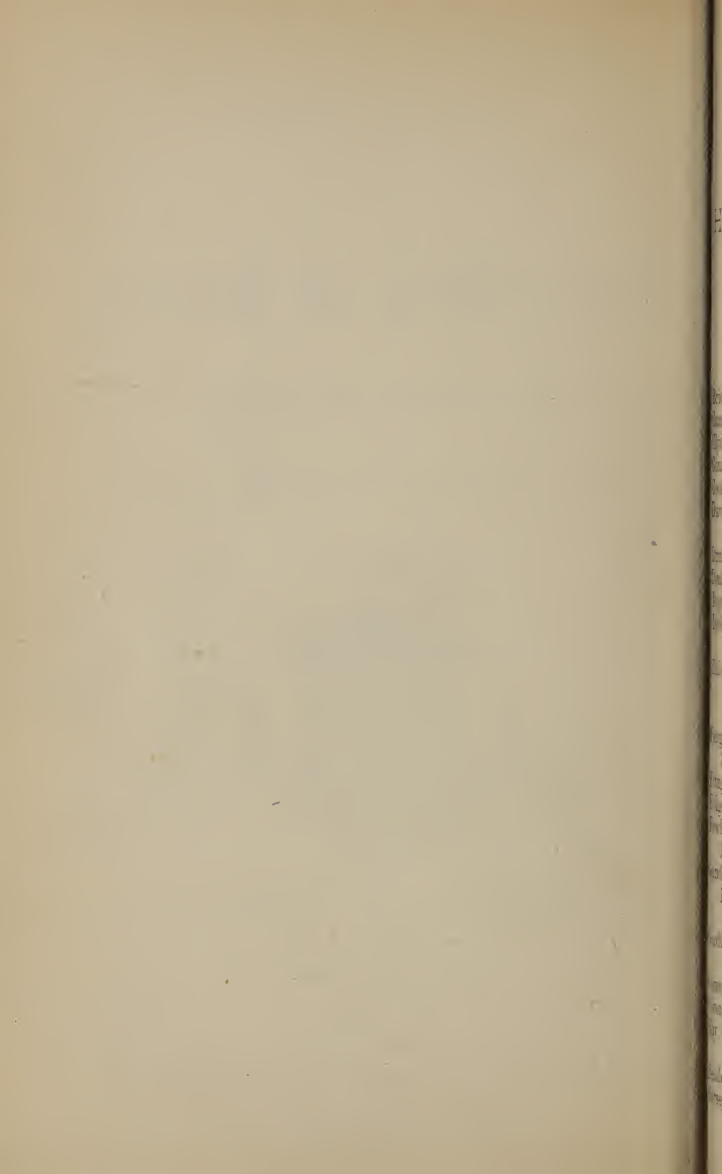


INCORPORATED BY ROYAL CHARTER, A.D. 1841.

TORONTO:

JAMES MURRAY & Co., PRINTERS, 26 AND 28 FRONT STREET.

1886.



HONOURS, PRIZES, MEDALS, &c.

HONOURS.

FROM 1877.

- Briden, Wm. H. First-class in Classics, 1879.
Cameron, Chas. J. First-class in Classics, 1882.
Glyde, Wm. First-class in Classics, 1886.
Donnell, Jas. C. First-class in Mathematics, 1885.
Cooke, John. Second-class in Latin, 1884.
Davis, Bidwell N. First-class in Mathematics, and first-class in Chemistry, 1881.
Drummond, Wm. J. Second-class in Classics, 1885.
Dunlop, J. G. First-class in French and German, 1886.
Dupuis, James M. First-class in Chemistry, 1879
Glyde, Samuel W. First-class in Classics, 1881.
First-class in Philosophy, 1884.
Elliott, Edwin. First-class in History, 1886.
Second-class in English, 1886.
Second-class in French and German, 1886.
Ferguson, Robt. First-class in History and English Literature, 1882.
Fitzgerald, Eliza S. First-class in Classics, 1884.
Folger, Marion. First-class in French and German, 1886.
Fowler, Henry C. First-class in History and English Literature, 1881.
Gardner, Alfred. First-class in History and English Literature, 1883.
First-class in Philosophy, 1886.
Gardiner, S. H. First-class in Natural Science, 1886.
First-class in Chemistry, 1886.
Givan, Arpad. First-class in Mathematics, 1883.
Givens, David A. First-class in Mathematics and Physics, 1878.
Hay, John. First-class in Philosophy, 1882.
First-class in Political Economy, 1884.
Henderson, George F. First-class in English Literature, 1884.
Horsley, H. E. First-class in Mathematics, 1886.

- Hume, John P. First-class in Mathematics and Physics, and First-class in Chemistry, 1881.
- Hunter, James McF. First-class in History and English, 1886.
- Irvine, Richard W. Second-class in Latin, 1881.
- Irvine, William H. First-class in Mathematics and Physics, 1877.
- Johnston, Joshua R. Second-class in History and English Literature, 1882.
- Linton, Adam R. First-class in Classics, 1880.
First-class in Philosophy and second-class in Chemistry, 1881
- Logie, William A. First-class in Latin, 1886.
- Miller, John. Second-class in History and English, 1886.
Second-class in French and German.
- Mitchell, George W. Second-class in Classics, 1885.
- Macdonald, George. First-class in Classics, in History and English Literature, and in Philosophy, 1878.
- Mackenzie, Arch. A. First-class in Classics, in History and English Literature, and in Philosophy, 1877.
- McCallum, Arch. B. First-class in Philosophy, 1880.
- McColl, Allan E. Second-class in Mathematics, 1885.
- McGillivray, Alice. First-class in Chemistry, 1884.
- McKay, Matthew. First-class in History, 1879.
- McKay, Roderick. First-class in Latin, 1881.
- McKinnon, John. First-class in Mathematics, 1886.
- McLennan, Finlay M. First-class in Mathematics and Physics, 1878.
- McLeod, Alex. First-class in Political Economy, 1882.
- McMillan, Hugh H. Second-class in Mathematics and Physics, 1879.
- McRae, T. W. R. First-class in History and English, 1886.
- McRossie, Allan. First-class in Zoology, 1886.
- McTavish, Daniel. First-class in Classics, 1879.
First-class in Philosophy, 1881.
- Nicol, William. First-class in Chemistry, 1883.
First-class in Natural Science, 1885.
First-class in History and English, 1886.
- O'Reilly, James R. First-class in Political Economy, 1881.
- Ritchie, George. First-class in Classics, in History and English Literature and in Philosophy, 1877.
- Robertson, Miles S. First-class in French and German, 1880.
- Scott, Colin A. First-class in Chemistry and second-class in Natural Science, 1885.
- Shannon, Lewis W. First-class in Chemistry, 1880.

- Shibley, Henry T. First-class in Political Economy, 1880.
First-class in History, 1882.
- Shorey, Edmund C. First-class in Natural Science, 1886.
First-class in Chemistry, 1886.
- Shortt, Adam. First-class in Philosophy, 1883.
- Smith, Alex. L. First-class in Classics, 1882.
- Stewart, William. First-class in Mathematics and Physics, 1879.
- Young, John. First-class in History and English Literature, 1881.
-

HONOURS IN PART OF COURSE, 1886.

- Farrell, Jennie. First-class, 1st year, Natural Science.
- Findlay, John. First-class, 3rd year, Mathematics.
- Goodwin, Ernest P. Second-class, 2nd year, Mathematics.
- Kilborn, Omar L. First-class, 1st year, Natural Science.
First-class, 1st year, Chemistry.
- McClement, William. First-class, 1st year, Chemistry.
- McRossie, Allan, First-class, 1st year, Geology.
- Patterson, William J. First-class, 2nd year, Mathematics.
- Ross, Alex. H. D. Second-class, 2nd year, Mathematics.
-

GOLD MEDALLISTS.

FROM 1877.

- Briden, William. Classics, 1879.
- Cameron, Charles J. Classics, 1882.
- Connell, James C. Mathematics, 1885.
- Dupuis, James M. Chemistry, 1879.
- Dyde, Samuel W. Classics, 1881.
Philosophy, 1884.
- Fowler, Henry C. History and English Literature, 1881.
- Ferguson, Robert. History and English Literature, 1882.
- Fitzgerald, Eliza S. Classics, 1884.
- Gandier, Alfred. History and English Literature, 1883.
Philosophy, 1886.
- Givan, Arpad. Mathematics, 1884.
- Hay, John. Philosophy, 1882.
- Horsey, Herbert E. Mathematics, 1886.

- Hume, John P. Mathematics and Physics, 1881.
Chemistry, 1881.
- Hunter, James McF. History and English Literature, 1886.
- Linton, Adam R. Philosophy, 1881.
- Macdonald, George. Philosophy, 1878.
- McCallum, Arch. B. Political Economy, 1880.
- McKay, Matthew. History, 1879.
- McGillivray, Alice. Chemistry, 1884.
- McLeod, Alexander. Political Economy, 1882.
- McLennan, Finlay M. Mathematics, 1878.
- McTavish, Daniel. History, 1880.
Political Economy, 1883.
- Nicol, William. Chemistry, 1883.
- O'Reilly, James R. Political Economy, 1881.
- Scott, Colin A. Chemistry, 1885.
- Shibley, Henry T. Political Economy, 1880.
- Shortt, Adam. Philosophy, 1883.
- Shorey, Edmund C. Chemistry, 1886.
- Stewart, William. Mathematics, 1879.
-

SILVER MEDALLISTS.

- Folger, Marion. French and German, 1886.
- Hay, John. Political Economy, 1884.
- Henderson, George F. History, 1884.
- Mitchell, George. Classics, 1885.
- Nicol, William. Natural Science, 1885.
- Shorey, Edmund C. Natural Science, 1886.
-

PRINCE OF WALES' PRIZEMEN.

- 1869—Robert Crawford, Kingston.
- 1870—Thomas H. McGuire, Kingston.
- 1871—Hugh Urquhart Bain, Perth.
- 1872—Archibald P. Knight, Renfrew.
- 1873—William Arthur Lang, Almonte.
- 1874—Donald Malcolm McIntyre, Kingston.
- 1875—Thomas Dickie Cumberland, Rosemont.

- 1876—John Brown McLaren, Kingston.
 1877—John Reeve Lavell, Kingston.
 1878—David Alexander Givens, Kingston.
 1879—Matthew McKay, Bradford.
 1880—William Briden, Bath.

UNIVERSITY PRIZE.

William Burns. “Macpherson Prize,” for the best essay on the
 Influence of Britain on India.

GOVERNOR GENERAL'S PRIZE.

John Marshall, B.A.

SCHOLARSHIPS IN ARTS.

I. GAINED AT MATRICULATION EXAMINATIONS.

- Dyde, George E. The “Gunn,” for General Proficiency.
 King, Frank. The “Watkins,” for Classics.
 Weir, D. R. The “Leitch Memorial,” for Mathematics.
 Dewar, Donald L. The “M. C. Cameron,” for Gaelic.
 Farrell, T. H. The “Mowat,” for Arithmetic.
 Mills, W. G. }
 Sinclair, J. A. } The McNab and Horton.
 Boyd, John D. }
 McPherson, Norman. } The Marion S. Macdonald, for Students
 from Glengarry.
 Curle, William. The “Senate No. 1,” for General Proficiency.
 Minnes, Robert S. The “Senate No. 2,” for General Proficiency.
 Drummond, D. R. The “Senate No. 3,” for General Proficiency.

II. GAINED AT SESSIONAL EXAMINATIONS.

- Dyde, George E. The “Foundation No. 1,” for Junior Latin.
 Mills, John H. The “Foundation No. 2,” for Junior Greek.
 Chambers, Alice. The “Foundation No. 3,” for Senior English.

- Scott, Thomas R. The "St. Andrew's Church, Toronto," for Senior Greek.
- Finlay, William A. The "Toronto," for Senior Latin (with the honour of the St. Andrew's Church, Toronto).
- Drummond, D. R. The "Glass Memorial," for Junior Mathematics.
- Bain, William G. } The "Foundation No. 4," for Junior Philosophy.
- McLean, J. M. } osophy.
- Patterson, W. J. The "Foundation No. 5," for Junior Physics.
- Marshall, John. The "Foundation No. 6," for Junior Chemistry.
- Allen, Thomas G. } The "Nickle," for Natural Science.
- Fairfield, C. A. D. } The "Nickle," for Natural Science.
- Cornett, W. H. The "Cataraqui," for History.
- Farrell, T. Harry. The honour of the Glass Memorial.

SCHOLARSHIPS IN THEOLOGY.

I. GAINED AT MATRICULATION EXAMINATIONS.

- Henderson, Johnson, B. A. The "David Strathern Dow."
- McKinnon, Malcolm, B.A. The "Buchan, No. 1."
- Fowler, William J., M.A. The "Buchan, No. 2."
- Milne, J. W. H. The "Dominion."
- Lang, George R., B.A. The "Buchan, No. 3."
- Cameron, Charles J., B.A. Honour of the "David Strathern Dow."

II. GAINED AT SESSIONAL EXAMINATIONS.

- Gow, Robert, B.A. } The "Robert Anderson No. 3, Third year Divinity."
- McLeod, John, B.A. } year Divinity."
- Childerhose, S., B.A. The "Robert Anderson, No. 1, Second year Divinity."
- Henderson, Johnson, B.A. The "Robert Anderson, No. 2, First year Divinity."
- Smith, James F. The "Hugh McLennan," Church History.
- Cosgrove, Thomas A. The "Church of Scotland, No. 2," First year Hebrew.
- Lang, George R., B.A. } The "Church of Scotland, No. 3,"
- McKinnon, Malcolm, B.A. } Second year Hebrew.
- McKay, Roderick, B.D. The "Church of Scotland, No. 4," Third year Hebrew and Chaldee.

- Givan, Arpad, B.A. The "Mackerras Memorial," Greek Testament Exegesis.
 Gandier, Alfred, B.A. The "Rankine," Apologetics.
 Fowler, William A., M.A. The "Spence," General Proficiency in first year.
-

LIST OF GRADUATES. - 1920

BACHELOR OF ARTS (B.A.)

- | | |
|-----------------------|----------------------|
| Armour, James. | Kelly, T. Webster. |
| Ashton, John J. | Marshall, John. |
| Bain, William G. | Miller, John. |
| Bennet, Orr. | McGuirl, Thomas H. |
| Cameron, Charles J. | McKinnon, John. |
| Corkhill, Edward J. | McRae, Thomas W. R. |
| Dewar, Donald L. | Robertson, Donald M. |
| Elliot, Edwin. | Shorey, Edmund C. |
| Grant, Norman M. | Smith, Gordon J. |
| Horsey, Herbert E. | Spooner, Margaret M. |
| Irving, Lennox. | Whiteman, Richard. |
| Johnson, Frederick W. | Young, Frederick M. |

Ad eundem, McDonald, Clinton D.

BACHELOR OF LAWS (LL.B.)

- Mowat, Herbert M., B.A.

BACHELOR OF DIVINITY (B.D.)

- McKay, Roderick, B.A.

DOCTOR OF MEDICINE (M.D.) AND MASTER OF SURGERY (C.M.)

- | | |
|---------------------|------------------------|
| Beamán, William C. | Cornell, Stanley S. |
| Bruce, Frederick. | Coy, William F. |
| Burdett, Harry E. | Creggan, John G., B.A. |
| Casselman, Joseph. | Dame, Alexander A. |
| Collius, Cornelius. | Dickson, Annie E. |
| Connerty, J. Moore. | Dixon, Mortimer L. |

Donovan, Edward I.	Mundell, John.
Foley, Declan E.	McCardel, Edward J.
Galligan, Thomas D.	McLaughlin, Edward.
Hamilton, John, B.A.	McVety, Albert F.
Hanna, James E.	Nimmo, John H., B.A.
Heath, Frederick C.	Oliver, Marion.
Hutchison, John.	Pitblado, Colin.
Jack, George G.	Shaw, John M., B.A.
Jamieson, Archibald.	Smith, Frederick B.
Lane, Isaac J.	Storms, Douglas G.
Mather, William M.	Watts, Ezra J.
Mellow, Samuel J.	Wright, Edward W.
Mundell, David E., B.A.	

C.M. alone—Odlum, John, M.D.

DOCTOR OF DIVINITY (D.D.)

Very Rev. John Forest, Principal of Dalhousie University,
Halifax.

Rev. David Watson, M.A., Thorah.

DOCTOR OF LAWS (LL.D.)

Rev. Silas T. Rand, Hantsport, Nova Scotia.

Rev. Æneas McD. Dawson, Ottawa.

PASS-MEN IN ARTS.

I. SUPPLEMENTARY EXAMINATIONS—SEPTEMBER, 1884.

Junior Latin.

Burns, William.
Burgar, C. M.
Holdercroft, William T.

Jones, Arthur W.
Ross, Hugh.

Senior Latin.

McFarland, John F.
Grant, Norman M.
Kirkwood, David H.

Kidd, Wm. J.
McGuirl, Thomas H.

Junior Greek.

Townsend, H. W.

Junior French.

Burns, William.
McGuirl, T. H.

McEwen, Thomas.
Hamilton, M. G.

Senior French.

Head, John.

McGuirl, T. H.

Junior German.

Burns, William.
Young, F. M.

McGuirl, T. H.
Smith, Gordon J.

Senior German.

Head, John.

McGuirl, T. H.

Junior Mathematics.

Ashton, John J.
Lochhead, L. T.

Sinclair, R. H. C.
Logie, W. A.

Junior English.

Burger, C. M.
Claxton, J. A.
McClement, W.
Sinclair, R. H. C.
Kirk, James.

Chown, S. T.
Dupuis, D. R.
Chambers, Alice.
Mills, J. H.
White, J. W.

Senior English.

Dunning, H. N.
Head, John.
Horsey, H. E.

Robertson, D. M.
Findlay, John.
Townsend, T.

History.

Burns, William.
Kidd, W. J.

Head, John.

Junior Physics.

Dunning, H. N.
Bain, William G.

Townsend, T.
Smith, G. J.

Senior Physics.

McKinnon, John.

Junior Philosophy.

McGuirl, T. H.

Logic and Political Economy.

Cameron, C. J.

Chemistry.

Foxton, Joseph.

Thomas, H. P.

II. SESSIONAL EXAMINATIONS—APRIL, 1886.

Junior Latin.

Dyde, G. E.
 Drummond, D. R.
 Minnes, R. S.
 King, F.
 Hay, A. G.
 Chown, S. T.
 Mills, J. H.
 Squire, Maude M.
 Curle, W.
 McPhail, D. G.
 Farrell, T. H.
 Mahood, P.
 Scott, T. B.

Russell, E. H.
 Minnes, J. A.
 Sinclair, J. A.
 Echlin, E. B.
 Phalen, R. M.
 Hunter, R. J.
 McCammon, F. J.
 McPherson, N. A.
 Strachan, D.
 Carmichael, J. F.
 Brown, F. M.
 Boyd, J. D.
 Reddon, J. A.

Senior Latin.

Finlay, W. A.
 Beall, Arthur W.
 Barclay, W. B. C.
 Pirie, Edwin.
 Spooner, M. M.
 Claxton, John A.
 Scott, T. R.

Griffin, E. S.
 Sinclair, R. H. C. } equal.
 Bain, A. U.
 Hartwell, G. E.
 Leask, H.
 Chambers, Alice.
 Jackson, N.

Corkill, E. J.	} equal.	McEwen, J.	} equal.
Lochhead, L. T.		McDonald, J. A.	
McFarlane, A. K. H.		McKenzie, A.	
Dewar, D. L.	} equal.	Stuart, W. A.	
Potter, J. G.		Lavell, H. A.	
Cattanach, J.			

Junior Greek.

Mills, J. H.	} equal.	Echlin, E. B.	} equal.
Dyde, G. E.		Hunter, R. J.	
Drummond, D. R.		Boyd, J. D.	
Hay, A. G.	} equal.	Macpherson, N. A.	} equal.
McPhail, D. G.		McKenzie, A.	
Scott, T. B.		Camelon, T. P.	
Sinclair, J. A.		Pirie, H. H.	
Squire, Maude M.		Muirhead, J. W.	
Curle, W.		McEwen, J.	
Russell, E. H.		Strachan, D.	

Senior Greek.

Finlay, W. A.	} equal.	Pirie, Edwin.	} equal.
Townsend, H. W.		MacLennan, J. J.	
Scott, T. R.		Flemming, D.	
Sinclair, R. C. H.		Dewar, D. L.	
McLeod, P. A.		Cattanach, J.	
Bain, A. U.		Potter, J. G.	
Rattray, J.		Leask, H.	
McLean, J. M.		Armour, J.	
Ryan, E.		Cornett, W. H.	
Hartwell, G. E.		Kelly, T. W.	

Junior Mathematics.

(Superior rank on pass and problem papers.)

Farrell, T. H.	King, Frank.
Minnes, R. S.	Chown, S. S.
Curle, William.	Lochhead, Lydia A.

(Pass Paper.)

Drummond, D. R.	McPhail, D. G.
Russell, E. H.	Holdcroft, W. T.
Marshall, J.	Hay, Arthur G.

Mills, J. H.
 Madden, J. H.
 McKenzie, A.
 Phalen, R. M.
 Dyde, G. E.
 Kilborn, O. L.
 Sinclair, J. A.
 Parker, F. R.
 Echlin, E. B.
 Squire, Maude M.

McCammon, F. J.
 Farrell, J. M.
 Griffin, E. S.
 Burns, S. S.
 Strachan, D.
 Gillies, J. S.
 Irving, L.
 Mahood, P.
 McPherson, N. A.
 Johnson, F. W.

Senior Mathematics.

Patterson, W. J.
 Goodwin, E. P.

Ross, A. H. D.

Junior Physics.

Patterson, W. J.
 Young, F. M.
 Hales, James. } equal.
 McLean, J. M. }
 Elliott, E.
 Bennet, O. } equal.
 Scott, T. B. }
 Wilson, H. L.
 Folger, H. S.
 McKenzie, M.
 Cunningham, D.
 MacLennan, J. J.
 Armour, J.
 Carmichael, J. F.

Robertson, D. M.
 Logie, W. A.
 Miller, J.
 McFarland, J. Y.
 Cameron, C. Alice. } equal.
 McRae, T. W. R. }
 Sturgeon, R. J. } equal.
 Kilborn, O. L. }
 Whiteman, R. }
 Reddon, J. A.
 Ross, A. H. D.
 Cameron, C. J.
 Irving, L.

Senior Physics.

Findlay, John.

Junior Philosophy.

Bain, W. G. } equal.
 McLean, J. M. }
 Morden, W. S.
 Folger, H. S.
 McLeod, P. A.
 McKenzie, M.

Wilson, H. L.
 Kirk, F. J.
 Givens, Hannah A.
 Cunningham, D.
 Spooner, M. M.
 McDonald, J. A.

Yorkill, E. J.		Hales, J.	
Cameron, C. Alice.		Morden, G. W.	} equal.
Beall, A. W.		Haig, A.	
Allen, T. G.		Sturgeon, R. J.	} equal.
Cameron, W. A.		Smith, G. J.	
Dosgrove, T. A.		Holdcroft, W. T.	
Shorey, E. C.		Flemming, D.	
McFarlane, A. K. H.		Armour, J.	} equal.
Hunter, R. J.		Givens, W. R.	
McEwen, J.		Fraser, T. H.	
Parker, F. R.	} equal.	Grant, N. M.	
Whiteman, R.		Dupuis, C. B.	
Thomas, H. P.	} equal.	Carmichael, J. F.	
Dunning, H. N.		Miller, J.	

Senior Philosophy.

Marshall, J.	Kelly, T. W.
Rattray, J.	

Junior English.

Drummond, D. R.	Gillies, J. S.
Squire, Maude M.	King, Frank.
Curle, W.	Minnes, J. A.
Hay, Arthur G.	Cattanach, J.
Dyde, G. E.	Madden, J. H.
Russell, E. H.	Burns, S. S.
Givens, W. R.	Lowden, J. W.
McPhail, D. G.	Camelon, T. P.
Phalen, R. M.	Mahood, P.
Echlin, E. B.	McDonell, A. R.
Farrell, Jenny.	Camelon, J. M.
Sinclair, J. A.	Muirhead, J. W.
Strachan, D.	McDonald, D. D.
Boyd, J. D.	Macpherson, N. A.

Senior English.

Chambers, Alice.	Scott, T. R.
Scott, T. B.	Smith, G. J.
Lochhead, L. T.	Barclay, W. B. C.
Patterson, W. J.	Bain, A. U.
Claxton, J. A.	McDonald, J. A.

Folger, H. S.
 Pirie, E.
 Allen, T. G.
 McKenzie, M.
 Potter, J. G.
 Gardiner, S. H.
 Shorey, E. C.
 Reddon, J. A.
 Fraser, F. H.

Hartwell, G. E.
 Leask, H.
 Griffin, E. S.
 Lavell, H. A.
 Ross, A. H. D.
 Bryan, G. J.
 Garrett, W. R.
 Mills, J. H.

History.

Cornett, W. H.
 Lochhead, L. T.
 Jackson, N.
 Cameron, J. C.

Barclay, W. B. C.
 Robertson, D. M.
 Dewar, D. L.
 Whiteman, R.

Junior French.

King, Frank.
 Minnes, R. S.
 Farrell, T. H.
 Gillies, J. S.
 Minnes, J. A.
 Chown, S. S.
 Mahood, P.

McCammon, F. J. } equal
 Brokenshire, W. H. }
 Brown, F. M.
 Farrell, J. M. } equal.
 Watson, A. R. }
 O'Connor, C. } equal.
 Lochhead, L. T. }
 Lochhead, Lydia A.

Senior French.

Beall, A. W.
 Claxton, J. A.
 Givens, H. A.
 Lavell, H. A.

Griffin, E. S.
 Chambers, Alice.
 Givens, W. R.
 McEwen, T.

Junior German.

King, Frank.
 Minnes, R. S.
 Farrell, T. H. } equal.
 Chown, S. T. }
 Minnes, J. A.
 McCammon, F. J.

O'Connor, C. } equal.
 Farrell, J. M. }
 Brokenshire, W. H.
 Brown, F. M.
 Dupuis, D. R.

Senior German.

Beall, A. W.	Givens, W. R.
Claxton, J. A.	Smith, G. J.
Lavell, H. A.	Chambers, A.
Givens, H. A.	Young, F. M.
Griffin, E. S.	

Junior Hebrew.

Cosgrove, T. A.	Henderson, J.
Ashton, John J.	Drummond, W. J.
Fowler, W. J.	Whiteman, R.
McLeod, P. A.	Potter, J. G.

General Chemistry.

Marshall, J.	Connell, J. C.
Bolton, A. E.	Townsend, H. W.
Fairfield, C. A. D.	Cameron, W. A.
Morden, G. W.	Robertson, D. M.
Morden, W. S.	White, J. W.
Hales, J.	Irving, L.
Kirk, F. J.	Haig, A.
Cunningham, D.	

Practical Chemistry.

(Summer Session, 1885.)

Knight, A. P.	Robertson, J. W.
Livingston, Marion.	Adams, J.
Robinson, R. P.	Mitchell, H. F.
Bolton, A. E.	Martin, H. A.
Begg, J. W.	Graham, H. C. W.
McKelvey, R. J.	Ryan, E.
McCammon, H.	Downing, W. H.

(Session, 1885-6.)

Errett, A. E.	Grant, N. M.
McEwen, R.	Mitchell, Eliz. S.
Mallory, C. N.	
Dupuis, E. L.	

Bell, J. H. }
 Elliot, A. R. } equal.
 Thorne, S. H. }
 McGrath, E.
 Hart, M. W.
 Cameron, D. }
 Ferguson, A. G. } equal.
 Koyle, F. H. }
 Blaylock, Ella. } equal.
 Hamilton, J. A. }
 Dowson, W. H.
 McAmmond, J. F.
 Belch, J. A.
 Gallagher, M.

Neish, W. D.
 Lawyer, Annie.
 Anderson, J. J. }
 Gillis, A. B. } equal.
 Ranstead, W. }
 Smellie, D. }
 Hart, J. F. } equal.
 Hay, W. }
 Campbell, A. L.
 O'Neil, T.
 Pratt, W. F.
 Scott, P. J.
 Craine, Agnes D.
 Wright, T. A.

Medical Chemistry.

(First Part.)

Bolton, A. E.
 Ferguson, A. E.
 Cooke, W. H. } equal.
 Walker, A. D. }
 Elliot, A. R.
 Harkness, F. B. } equal.
 O'Neil, T. }
 Jamieson, T. J.
 Craine, Agnes D. } equal.
 Hart, M. W. }
 Robertson, J. W. }
 McConville, Isobel.
 Embury, Eliz.
 McCammon, H.
 Mitchell, E. S.
 Livingstone, M.
 David, W. C. } equal.
 McGrath, E. }
 Scott, P. J.
 Graham, H. C. W. } equal.
 Whitney, A. W. }
 Chamberlain, W. P.
 McGrath, M. } equal.
 Pratt, Wilton. }
 Emery, G. F.

Koyle, F. H. } equal.
 Mallory, C. N. }
 Jamieson, D.
 Grant, N. M. } equal.
 Maxwell, W. J. }
 Hart, J. F.
 Mabee, C. O.
 Horsey, E. H. } equal.
 Neish, W. D. }
 Downing, W. H.
 Sands, E.
 Lawyer, Annie.
 Lanfear, H. O. } equal.
 McGillivray, T. S. }
 Robinson, R. P.
 McAmmond, J. F. } equal.
 Marshall, Alice A. }
 Duff, J. } equal.
 Fraser, J. B. }
 Smellie, D.
 Gillis, A. B.
 Dupuis, E. L.
 Baker, T. C.
 Rankin, W. H.
 Campbell, A. L.

(Second Part.)

Bolton, A. E.	O'Neil, T.
Harkness, F. B.	McGillivray, T. S.
Embury, E.	Lawyer, A.
Chown, A. P.	Pratt, Wilton. } equal.
McCammon, H.	Walker, A. D. }
Jamieson, T. J.	Emery, G. F. } equal.
Hart, M. W.	Horsey, E. H. }
Jamieson, D.	Hart, J. F.
David, W. C.	Pratt, W. F.
Ferguson, A. G. } equal.	Graham, H. C. W. }
Downing, W. H.	Neish, W. D. } equal.
Chamberlain, W. P. }	Gillis, A. B. }
Duff, J. } equal.	Koyle, F. H. }
McGrath, E.	Holdcroft, J.
Livingstone, M.	Marshall, A. A. }
Elliot, A. R.	Whitney, A. W. } equal.
Craine, A. D.	Scott, P. J.
Rankin, W. H. }	Smellie, D.
Robertson, J. W. } equal.	Tillman, H. G.
Robinson, R. P. }	
Mallory, C. N. }	
Mitchell, E. S. } equal.	
Mitchell, H. F. }	

Natural Science.

Allen, T. G.	White, J. W.
Fairfield, C. A. D.	Morden, G. W.
Kirk, F. J.	Haig, A.
McClement, W. T.	Smith, G. J.
Bain, W. G.	Bryan, G. J.
Cameron, W. A.	Kidd, W. J.
Marquis, T. G.	Grant, N. M.

Botany (only).

(Summer Session, 1885)

Bolton, A. E.	Mitchell, H. F.
Nimmo, J. H.	Robinson, R. P.
Livingstone, M.	Allen, A. G.

(Session, 1885-6.)

Horsey, E. H.	} equal.	Gillis, A. B.	
Allen, T. G.		Sands, E.	
Craine, A. D.	} equal.	Pratt, W.	} equal.
Pitblado, C.		Rankin, W. H.	
Cram, G. D.		Marshall, A. A.	
Downing, W. H.		Mabee, C. O.	
David W. C.		McCammon, H.	
Embury, E.	} equal.	Stewart, A.	
Whitney, A. W.		Neish, W. D.	
Tillman, H. G.		Dupuis, E. L.	
McGrath, E.		Holdercroft, J.	
Emery, G. F.		Smellie, D.	
Little, W. C.		Hall, W. J.	
Lawyer, A.	} equal.	Harvie, W. D.	
McConville, I.		Herald, W.	
Cook, W. H.		McLean, D. W.	
McGillivray, T. S.		Forrester, W. A.	
Koyle, F. H.		Graham, H. C. W.	
Hart, J. F.			

PASS-MEN IN THEOLOGY.

First Year in Divinity.

Fowler, W. J.	Milne, J. W. H.
Henderson, J.	Lang, G. R.
McKinnon, M.	Hyland, D. J.
Drummond, W. J.	

Second Year in Divinity.

Gandier, A.	Grant, H. R.
Childerhose, S.	Buchanan, J. H.
Smith, J. F.	Perrin, L.
Steele, J.	McRossie, A.

Third Year in Divinity.

McKay, R.	Grant, J. A.
Givan, A.	Campbell, N.
Gow, R.	McAulay, A.
McLeod, J.	McRossie, A.
Allan, W.	

Second Year in Hebrew.

McKinnon, M.	}equal.	Grant, H. R.
Lang, G. R.		Hyland, D. J.
Steele, J.		

Third Year in Hebrew.

McKay, R.	}equal.	Grant, J. A.
Allan, W.		Gow, R.
McLeod, J.		

Chaldee.

McKay, R.	McLeod, J.
Allan, W.	

O. T. Criticism and Exegesis.

McKay, R.	Bennett, O.	}equal.
Henderson, J.	Drummond, W. J.	
Fowler, W. J.	Lang, G. R.	
Givan, A.	Gow, R.	
Perrin, L.	McKinnon, M.	
McLeod, J.	Steele, J.	
Grant, J. A.	Campbell, N.	
Grant, H. R.	Hyland, D. J.	
Smith, J. F.	Allan, W.	

N. T. Criticism and Exegesis.

McKay, R.	Bennet, O.	}equal.
Givan, A.	Fowler, W. J.	
Drummond, W. J.	Perrin, L.	
Allan, W.	Henderson, J.	}equal.
Grant, J. A.	Lang, G. R.	
McLeod, J.	Campbell, N.	
Childerhose, S.	Grant, H. R.	
Gow, R.	Hyland, D. J.	
Steele, J.		

Junior Apologetics.

Gandier, A.	McKinnon, M.
Henderson, J.	Hyland, D. J.
Fowler, W. J.	Lang, G. R.
Milne, J. W. H.	

Senior Apologetics.

Grant, H. R.	Perrin, L.	}equal.
Steele, J.	Childerhose, S.	
Smith, J. F.	McRossie, A.	
	Buchanan, J. H.	

Church History.

McKay, R.	Buchanan, J. H.	}equal.
Fowler, W. J.	Campbell, N.	
Henderson, J.	Allan, W.	
Smith, J. F.	Grant, H. R.	
Gow, R.	Givan, A.	
Bennet, O.	Hyland, D. J.	
McLeod, J.	Lang, G. R.	
Milne, J. W. H.	McAulay, A.	
McRossie, A.	Drummond, W. J.	}equal.
Grant, J. A.	Johnson, F. W.	
Childerhose, S.	Mills, W. J.	
McKinnon, M.	Millar, D.	
Perrin, L.		

PASS-MEN IN MEDICINE.

Physiology.

Craine, A. D.	Pirie, A. F.	}equal.
Scales, T.	McGillivray, T. S.	
Horsey, E. H.	Jamieson, D.	
Mitchell, E. S.	Downing, W. H.	}equal.
Robertson, J. W.	Fisher, A. J.	
Ferguson, A. G.	O'Neil, T.	
McGrath, E.	Robinson, R. P.	
Bolton, A. E.	Heslop, J. E.	
Embury, E.	Baker, T. C.	}equal.
Gillis, A. B.	Mallory, C. N.	
Jamieson, T. J.	Scott, P. J.	
Knight, A. P.	Pratt, W. F.	
Elliot, A. R.	Beeman, T. A.	}equal.
Hart, J. F.	Whitney, A. W.	
Hart, M. W.		

Lawyer, A. }
 Marshall, A. A. } equal.
 McCammon, S. H. }
 McEwen, E. } equal.
 Hay, W.
 Walker, A. D.

Campbell, A. L.
 Graham, H. C. W. }
 Koyle, F. H. } equal.
 Maybee, M.
 Neish, W. D.
 Fralick, W. G.

Anatomy.

Funnell, A. A. }
 Hanna, J. E. } equal.
 Dowson, W. H. }
 Gillis, A. B. } equal.
 Cameron, D. }
 Blaylock, E. }
 Downing, W. H. }
 Watts, E. J. } equal.
 Ferguson, A. G. }
 Ranstead, W. } equal.
 Pirie, A. F. }
 Begg, J. W. }
 Errett, A. J. } equal.
 Scales, T. }
 Mabee, J. E. }
 Gallagher, M. }
 Bolton, A. E. }
 James, M.

Freeman, A. E.
 Hart, M. W. }
 Hart, J. F. } equal.
 Beeman, T. A. }
 Mallory, C. N. } equal.
 Fralick, W. G.
 Mabee, C. O. }
 Pitblado, C. } equal.
 Hay, W.
 McEwen, E. }
 Thorne, S. H. } equal.
 Anderson, J. J.
 Hamilton, J. A. }
 Allen, A. G. } equal.
 Keith, S. }
 Heslop, J. E. } equal.
 White, A. N.
 Warner, A. F.

Materia Medica.

Begg, J. W. }
 Errett, A. J. } equal.
 Funnell, A. A. }
 Cameron, D. } equal.
 Gallagher, M. }
 Blaylock, E. } equal.
 Anglin, J. V.
 Ferguson, A. G. }
 Hanna, J. E. } equal.
 Thorne, S. H.
 Bolton, A. E. }
 Mabee, J. E. } equal.
 Livingstone, M. }
 McEwen, E.

Neish, W. D.
 Dowson, W. H. }
 Hart, M. W. } equal.
 Scott, P. J.
 Scales, T. }
 Watts, E. J. } equal.
 Anderson, J. J. }
 Downing, W. H. } equal.
 James, M. }
 Freeman, A. E. } equal.
 Pirie, A. F. }
 Fisher, A. J.
 Allen, A. G. }
 Ranstead, W. } equal.

Knight, A. P.
Fralick, W. G.
Hart, J. F.

Hay, W.
Heslop, J. E. } equal.
Warner, A. F.

Medical Jurisprudence.

Blaylock, E. }
Wright, E. W. } equal.
Mundell, D. E. }
Hanna, J. E. }
Cornell, S. S. }
Funnell, A. A. }
Foley, D. E. } equal.
Collins, C. }
Storms, D. G. }
McVety, A. F. } equal.
Galligan, T. D. }
Jamieson, A. }
Pitblado, C. } equal.
Casselmann, J. }
Conerty, J. M. }
McLaughlin, E. }

Hamilton, J. A. }
Smith, F. B. }
Creeggan, J. G. } equal.
Dame, A. A. }
Nimmo, J. H. }
Jack, G. G. }
Burdett, H. E. }
Watts, E. W. }
Mundell, J. }
Donovan, E. I. } equal.
Shaw, J. M. }
Bruce, F. }
Mellow, S. J. }
Lane, I. J. }
Mather, W. M. }
Heath, F. C. }
Knight, A. P. } equal.
Beaman, W. C. }

Practice of Medicine.

Dixon, M. L.
Mundell, D. E.
Mather, W. M.
Wright, E. W.
Burdett, H. E.
Foley, D. E.
Creeggan, J. G.
Coy, W. F.
Bruce, F.
Casselmann, J. } equal.
Hanna, J. E. }
Smith, E. B. }
Beaman, W. C. } equal.
Mellow, S. J. }
McVety, A. F. } equal.
Storms, D. G. }
Cornell, S. S.
Mundell, J.
Collins, C.

Galligan, T. D.
McLaughlin, E. } equal.
Pitblado, C. }
Hamilton, J. A. } equal.
Jack, G. G. }
Keith, S. }
Lane, I. J. } equal.
McCardel, E. J. }
Conerty, J. M. } equal.
Jamieson, A. }
Watts, E. J. }
Dame, A. A. } equal.
Donovan, E. J. }
Oliver, M. } equal.
Shaw, J. M. }
Heath, F. C.
Nimmo, J. H.
Dickson, A. E.

Surgery.

Dixon, M. L.		Conerty, J. M.	
Burdett, H. E.	} equal.	Donovan, E. I.	} equal.
Coy, W. F.		Jack, G. G.	
Foley, D. E.		Heath, F. C.	
Mundell, D. E.		Knight, A. P.	
McCardel, E. J.		Bruce, F.	
McVety, A. F.	} equal.	Creeggan, J. G.	} equal.
Wright, E. W.		Lane, I. J.	
Mather, W. M.		Nimmo, J. H.	
Cornell, S. S.		Oliver, M.	
Galligan, T. D.		Storms, D. G.	
Hanna, J. E.	} equal.	Watts, E. J.	} equal.
McLaughlin, E.		Mundell, J.	
Pitblado, C.		Beaman, W. C.	
Casselman, J.		Dame, A. A.	
Collins, C.		Dickson, A. E.	
Hamilton, J. A.	} equal.	McPhee, J.	} equal.
Jamieson, A.		White, A. N.	
Mellow, S. J.		Keith, S.	
Shaw, J. M.		Smith, E. B.	

Obstetrics.

Dixon, M. L.		Creeggan, J. G.	
Burdett, H. E.	} equal.	Cornell, S. S.	} equal.
Coy, W. F.		Dickson, A. E.	
Hanna, J. E.	} equal.	Heath, F. C.	
McLaughlin, E. J.		Jack, G. G.	
Mundell, J.		McCardel, E. J.	
Oliver, M.		McVety, A. F.	
Watts, E. J.	} equal.	White, A. N.	} equal.
Beaman, W. C.		Knight, A. P.	
Jamieson, A.		Mundell, D. E.	
Mellow, S. J.		Bruce, F.	
Smith, F. B.		Mather, W. M.	
Wright, E. W.		Casselman, J.	} equal.
		Foley, D. E.	
		Nimmo, J. H.	
		Storms, D. G.	
		Galligan, T. D.	

Collins, C.
 Dame, A. A.
 Pitblado, C.
 Shaw, J. M.
 Conerty, J. M.

} equal.

Donovan, E. I.
 Lane, I. J.
 Hamilton, J. A.
 Keith, S.

} equal.

HONOURS, ETC., IN MEDICINE.

ROYAL COLLEGE OF PHYSICIANS AND SURGEONS.

Gold Medal, Mortimer L. Dixon, M.D.

Silver Medals, David E. Mundell, M.D., and Edward W. Wright, M.D.

Certificates of Honour as House Surgeons at the General Hospital,
 Mortimer L. Dixon, M.D., and Edward W. Wright, M.D.

Certificates of Honour and Prizes of \$60 each, as Demonstrators
 of Anatomy, D. E. Mundell, M.D., and J. V. Anglin.

WOMEN'S MEDICAL COLLEGE.

"Ladies' of Kingston" Scholarship, Miss Marion Oliver, M.D.

"Trout" Scholarship, Miss Ada A. Funnell.

"Macnee" Scholarship, Miss Agnes D. Craine.

ADDITIONAL STUDENTS.

The following are additional to the lists given in pages 79-90 :

In Arts.

Name.	Year.	Residence.	Where Educated.
Barclay, W. B. C.	3 ..	Arnprior....	Aberdeen Grammar [S. & King's Col.]
Goold, Arthur J. B.A.	5 ..	Kingston....	Halifax H. S.
Lochhead, Lydia A...	1 ..	Napanee ...	Napanee H. School.
Lowden, John W.	1 ..	Pictou, N.S.	Pictou Academy.
MacIennan, J. J.	3 ..	Port Hope ..	Port Hope H. S.
Morden, W. S.	2 ..	Allisonville..	Pictou H. S.

In Theology.

Name.	Year.	Residence.
Bennett, O.	1 ..	Peterborough.
Drummond, W. J.	1 ..	Toledo.

In Medicine.

Name.	Year.	Residence.
Beeman, T A	3 ..	Selby.

LIST OF GRADUATES.

(Graduates are requested to intimate to the Registrar change of residence or any omission in the list.)

Those marked with an asterisk are clergymen.

Name.	Date of Graduation.	Address.
Abbott, Rodney H., M.D.....	1879	Comber.
Abbott, Samuel A., M.D.....	1868	Belleville.
Agnew, Andrew, B.A.	1864	Ottawa.
Agnew, John, B.A.....	1859	
M.A., 1872 ; M.D ..	1865	Kingston.
Alexander, Francis R., M.D....	1881 ..	(Deceased.)
Alexander, James A., M.D	1869	(Deceased.)
Alway, Enoch, M.D.....	1869	Smithville.
Anderson, W. J., M.D	1861	Winchester Springs.
Anglin, James, B.A.....	1883	Kingston.
Anglin, Robert S, M.D.....	1882	Springfield, Neb.
Anglin, William G., M.D.....	1883	Kingston.

(Professor Women's Medical College.)

Armour, James, B.A.....	1886	Perth.
Armstrong, Albert, M.D.....	1867	Arnprior.
Armstrong, Alfred, M.D.....	1866	(Deceased.)
Ashton, John J., B.A.....	1886	Darlington.
Asselstine, Henry A., B.A.....	1876	
Aylesworth, Archibald K., M.D.	1863	(Deceased.)
*Awde, James, B.A.....	1879	Montreal.
Bain, Hugh U., B.A	1871	Prince Albert, NWT
Bain, John F., B.A	1867	Winnipeg.
*Bain, William, B.A., 1845; M.A., 1847 ; D.D.....	1872	Kingston.
Bain, William G., B.A	1886	Kingston.
Bain, William R., B.A.....	1863	
Ballagh, James H., B.A	1878	Jefferson, Iowa.

Name.	Date of Graduation.	Address.
Baxter, John C., D.D.....	1872	Scotland.
Bayne, James, D.D.....	1865	(Deceased.)
Beattie, William, M.D.....	1866	Wayram.
Beatty, Elizabeth R., M.D.....	1884	Mhow, India.
Beaman, William C., M.D.....	1886	Burritt's Rapids
Beeman, Thomas W., M.D.....	1878	Odessa.
Beckett, James, M.D.....	1863	(Deceased.)
Bell, Alexander, M.D.....	1865	Lakefield.
Bell, Andrew, B.A.....	1853	Carillon, Q.
*Bell, George, B.A., 1845, LL.D	1872	Kingston.

(Registrar, Queen's University.)

Bell, George, B.A.....	1878	Toronto.
Bell, James M., M.D.....	1857	(Deceased.)
Bell, John, B.A., 1862; M.A., 1865; M.D.....	1866	(Deceased.)
Bell, Josiah J., B.A., 1864; M.A.	1877	Brockville.
Bell, Robert, LL.D.....	1883	Ottawa.

(Assistant Director Geol. Survey of Canada.)

Bell, William, B.A.....	1855	(Deceased.)
Bellis, George, D.D.....	1880	(Deceased.)
Bennet, Orr, B.A.....	1886	Peterboro'.
Bennett, Henry, M.D.....	1878	(Deceased.)
Benson, John R., B.A., 1853; M.D.....	1858	(Deceased.)
*Bergne, Samuel B., D.D.....	1865	London, Eng.
Bernard, Gerald, M.D.....	1871	Newcastle-on-Tyne.
Bertram, Thomas A., M.D.....	1885	Dundas.
Bethune, Alexander, M.D.....	1858	Wingham.
Bethune, Henry F., M.D.....	1869	Nelles' Corners.
Bethune, William, B.A.....	1864	Geneseo, Ill.
Betts, Alfred H., M.D.....	1875	(Deceased.)
Betts, John H., M.D.....	1881	Kingston.
Bice, Mark, M.D.....	1869	Hampton.
Bigham, Hugh, M.D.....	1864	(Deceased.)
Bigham, James, M.D.....	1868	Warsaw.
Bigham, John, M.D.....	1865	(Deceased.)
Bird, Francis W., M.D.....	1859	Brooklyn, N.Y.
Bird, Nelson J., M.D.....	1860	San Francisco, Cal.
Bisonette, Julien D., B.A.....	1880	Dundas.
*Black, John, D.D.....	1876	(Deceased.)

Name.	Date of Graduation.	Address.
Black, William A., M.D.	1862	(Deceased.)
Blakely, Robert, M.D.	1861 ..	(Deceased.)
Bleasdell, Charles E., M.D.	1861	(Deceased.)
Bonner, John, B.A., 1845 ; M.A.	1847	(Deceased.)
Booth, Donald B., M.D.	1868	Odessa.
Bourchier, H. P., B.A.	1853	Valparaiso, S.A.
Bowen, George H., M.D.	1877	Seeley's Bay.
Bowen, Robert, M.D.	1865	H. M. Service.
Bowers, Samuel S., M.D.	1877	Fond du Lac, Wis.
Boyd, Edward, LL.B.	1863	Cincinnati, U.S.
Boyle, Arthur R., M.D.	1859	Petrolia.
*Boyle, W. H. W., B.A.	1884	Paris.
Branigan, P. K., M.D.	1872	(Deceased.)
Bray, John L., M.D.	1853	Chatham, O.
Briden, William, B.A.	1880	Ingersoll.
Bridgland, Samuel, M.D.	1860	Bracebridge.
Brien, James, M.D.	1862	Essex Centre.
Britton, Edward H., B.A.	1884	Kingston.
*Brown, James A., B.A.	1883	Beaverton.
Brown, Marshall, M.D.	1856	Cataraqui.
Brown, William G., B.A.	1881	Galt.
Bruce, Frederick, M.D.	1886	Toronto.
Buchanan, John H., B.A.	1885	
Buckley, Philip J., LL.B.	1863	(Deceased.)
Bullis, William H., M.D.	1884	Chatham, O.
Burdett, Harry E., M.D.	1886	St. Paul, Minn.
Burgess, James E., B.A., 1868 ; M.A.	1876	Sydenham.
*Burns, James C., D.D.	1884	Kirkliston, Scotland.
*Caie, George J., B.A.	1861	Forfar, Scotland.
Caldwell, William, B.A.	1866	Lanark.
Cameron, Alexander D., M.D.	1882	Lancaster.
*Cameron, Chas. I., B.A., 1861 ; M.A.	1868	(Deceased.)
Cameron, Charles J., B.A.	1886	Kingston.
*Cameron, Hugh, B.A.	1870	Warwick.
Cameron, John, B.A.	1864	Toronto.
*Cameron, James Y., M.A.	1867	(Deceased.)
*Campbell, Alexander, B.A.	1862	Prince Albert, NWT
Campbell, Donald, B.A.	1850	(Deceased.)
Campbell, George, M.D.	1859	H. M. Navy.

Name.	Date of Graduation.	Address.
*Campbell, John, B.A., 1874 ; M.A.	1850	(Deceased.)
Campbell, John H., M.D.	1856	(Deceased.)
Campbell, Joseph, M.D.	1867	Paisley.
*Campbell, Neil, B.A.	1883	Port Elmsley.
*Campbell, Robert, B.A., 1856 ; M.A.	1858	Montreal.
*Campbell, Robert, B.A., 1867 ; M.A., 1870 ; D.Sc.	1884	Renfrew.

(Lecturer on Political Economy, Queen's College.)

Cartwright, Alexander D., B.A.	1885	Kingston.
Cartwright, Richard C., M.D. ..	1884	
Carscallen, Allen B., M.D.	1875	Enterprise.
Case, George H., M.D.	1876	(Deceased.)
Casselman, Joseph, M.D.	1886	N. Williamsburg.
*Cattanach, John C., B.A., 1868 ; M.A.	1881	Halifax.
*Caven, William, D.D.	1875	Toronto.

(Principal, Knox College.)

Chaffey, Elsworth, M.D.	1871	Ontario, Cal.
Chamberlaine, T. F., M.D.	1862	Morrisburg.
Chambers, Daniel, M.D.	1855	(Deceased.)
*Chambers, Robert, B.A.	1866	Erzeroum, Turkey.
Chambers, William, B.A.	1883	Kingston.
Channonhouse, John, M.D.	1863	Eganville.
Channonhouse, Thomas, M.D. ..	1860	(Deceased.)
Chapman, Edward J., LL.D.	1867	Toronto.

(Professor University College.)

Childerhose, Stephen, B.A.	1884	Madoc.
*Chisholm, John, B.A.	1878	Nicola Valley, B.C.
Chisholm, Harvey F., M.D.	1857	(Deceased.)
Chown, George Y., B.A.	1883	Kingston.
Chown, Henry H., M.D.	1880	Winnipeg.
Chrysler, Francis H., B.A.	1866	Ottawa.
Clancy, Charles C., M.D.	1883	Port Huron, Mich.
Clark, W. C. D., M.D.	1885	
Clarke, James, M.D.	1868	Bay City, Mich.
Clarke, John, M.D.	1872	Peterboro'.
Clarke, Joseph A., M.A.	1882	(Deceased.)

Name.	Date of Graduation.	Address.
Clarke, J. G., M.D.	1880	Meaford.
Clarke, William, M.D.	1879	Ireland.
*Clarke, William C., B.A.	1855	(Deceased.)
Claxton, George, B.A.	1876	Gladstone, Man.
Claxton, William, M.D.	1874	Verona.
Cleaver, J. C. C., M.D.	1879	Trinidad.
Cleaver, William F., M.D.	1879	Trinidad.
Clinton, George, M.D.	1878	Deseronto.
Cluness, William R., B.A., 1855 ; M.A., 1859 ; M.D.	1858	Sacramento, Cal.
Clyde, William, B.A.	1885	Cataraqui.
Cogan, Jeremiah H., M.D.	1861	(Deceased.)
Connell, James C., B.A., 1884 ; M.A.	1885	Dundas.
Coleman, William F., M.D.	1863	Chicago.
Comer, Alex. T. C., M.D.	1864	Titusville, U.S.
Collins, Cornelius, M.D.	1886	Hastings.
Conerty J. Moore, M.D.	1886	Jasper.
*Cook, John, LL.D.	1880	Quebec.
Cooke, John, B.A.	1884	
Corbett, George H., M.D.	1856	Orillia.
Corbett, Henry T., M.D.	1868	(Deceased.)
Corkill, Edward J., B.A.	1886	Perth Road.
Corlis, Margaret A., M.D.	1885	St. Thomas.
*Cormack, James, B.A.	1872	Lachine.
Cornell, Albert P., M.D.	1882	Gravenhurst.
Cornell, Stanley S., M.D.	1886	Farmersville.
Corry, Robert, M.D.	1861	(Deceased.)
Coughlan, Richard, M.D.	1881	Waterdown.
Coultee, Helier Noel, M.D.	1882	Hull.
Coy, William F., M.D.	1886	
Craig, James J., B.A.	1874	Mount Forest.
Craig, Hugh A., M.D.	1878	Cobourg.
*Craig, Robert J., B.A., 1871 ; M.A.	1874	Deseronto.
Cranston, James G., M.D.	1860	Arnprior.
Crawford Joseph, M.D.	1857	(Deceased.)
Crawford, Robert, B.A.	1869	Kingston.
Creeggan, John G., B.A., 1878 ; M.D.	1886	Kingston.
Cryan, John, M.D.	1883 ..	Demorestville

Name.	Date of Graduation.	Address.
*Cumberland, James, B.A., 1877; M.A	1880	.... Stella.
Cumberland, Thomas, M.D....	1884	.... Minneapolis.
Cumberland, Thomas D., B.A....	1875	.... Winnipeg.
Cunningham, Henry C., M.D ..	1885	.... Carman, Man.
*Curran, William B., B.A., 1859; M.A	1870	.... Hamilton.
*Currie, Archibald, B.A., 1858; M.A	1861	.... Sonya.
*Currie, John, D.D.....	1885	.... Halifax.
<i>(Professor, Theological Hall.)</i>		
Curry, James W., B.A	1878	.... Port Hope.
Daly, Wilberforce, B.A.....	1880	.... Peterboro'.
Dame, Alexander A., M.D.....	1886	.... Galt.
*D'Argent, William E., B.A....	1884	.... McIntyre.
Darragh, Robert J., M.D.....	1866	.... Battersea.
David, Alfred, M.D.....	1873	.... Atlantic Mines, Mich
Davies, Ranson A., M.D	1876	.... Easton's Corners.
Davis, Bidwell N., B.A.....	1881	.... Trenton.
Davis, Lewis T., M.D.....	1883	.... Nanaimo, B.C.
Davis, Robert H., M.D.....	1858	.... York, Grand River.
Davidson, Myers, M.D.....	1864	.... Florence.
*Dawson, Æneas McD., LL.D .	1886	.... Ottawa.
*Dawson, Alexander, B.A.....	1869	.... Gravenhurst.
Dawson, Henry G., M.D.....	1885	.... Moorwood.
Day, Barnabas W., M.D.....	1862	.... Texas.
Day, H. W., M.D.....	1859	.... Trenton.
Day, Jonathan, M.D.....	1877	.... Fullarton.
Day, Lewis E., M.D	1880	.... (Deceased.)
Day, Walter D. P. W., M.D...	1877	.... Harrowsmith.
Deans, George, M.D.....	1865	.... Trenton.
Deans, William C., M.D.....	1861	.... (Deceased.)
Denike, George H., M.D	1882	.... Fulton, N.Y.
Dennistoun, Robert M., B.A....	1885	.... Toronto.
Dewar, Donald L., B.A.....	1886	.... Boulter.
Deynard, Adelbert B., M.D....	1875	.... Owen Sound.
Dickson, Annie E., M.D.....	1886	.... Kingston.
Dickson, Charles R., M.D.....	1880	.... Kingston.
Dickson, John R., M.D.....	1863	.... (Deceased.)
Dickson, John R., M.D	1868	.... (Deceased.)
Dingman, William E., M.D....	1875	.... Listowel.

Name.	Date of Graduation.	Address.
Dingwall, James, B.A.....	1864	....Cornwall.
Dixon, Mortimer L., M.D.....	1886	....Frankville.
*Donald, William, D.D.....	1861	....(Deceased.)
Donald, William, B.A.....	1873	....Pilot Mountain, Man.
Donovan, Edward I., M.D.....	1886	....Campbellford.
Donovan, Patrick C., M.D.....	1879	....Gretna, Man.
Douglas, James, B.A.....	1858	....Phoenixville, Penn.
Douglas, Robert, B.A., 1851 ; M.D.....	1855	....(Deceased.)
Dow, John Ball, B.A.....	1875	....Whitby.
Downing, James J., B.A.....	1881	....(Deceased.)
Dowsley, David H., M.D.....	1875	....Clinton.
Dowsley, George C., M.D.....	1875	....Frankville.
Drummond, Andrew T., B.A., 1860 ; LL.B.....	1863	....Montreal.
Drummond, Francis A., B.A....	1877	....Winnipeg.
Drummond, William J., B.A....	1885	....Toledo, O.
Duclos, John E., B.A.....	1884	....New York.
Duff, Hew R., M.D.....	1884	....Newburgh.
Dugdale, John J., M.D.....	1867	....Montreal.
Dumble, Thomas H., M.D.....	1870	....Gananoque.
Dumble, William C., M.D.....	1877	....Brantford.
*Dumoulin, John P., M.A.....	1870	....Toronto.
Dunbar, Neil, B.A.....	1854	....(Deceased.)
Dunbar, Samuel, M.D.....	1855	....(Deceased.)
Dunlop, Neil, M.D.....	1861	....Sydenham.
Dunn, Andrew T., M.D.....	1864	....North Augusta.
Dupuis, James M., M.D.....	1881	....Verona.
Dupuis, Nathan F., B.A., 1866 ; M.A.....	1868	....Kingston.
<i>(Professor, Queen's College.)</i>		
Dupuis, Thomas R., M.D.....	1860	....Kingston.
<i>(Professor, Royal College.)</i>		
Dwyre, Andrew W., M.D.....	1885	....Elgin.
*Dyckman, Henry M., B.A....	1877	....Orange, N. J.
Dyde, Samuel W., B.A., 1883 ; M.A.....	1884	....Fredericton, N.B.
<i>(Professor, University of New Brunswick.)</i>		
*Eakin, Joseph F., B.A.....	1866	....Dundalk.
*Edmison, Henry, B.A., 1863 ; M.A.....	1866	....Rothesay, O.

Name.	Date of Graduation.	Address.
Elliot, Edwin, B.A.	1886	.... Kingston.
Elliot, Thomas A., B.A.	1879	.... Brockville.
Elmer, William W., M.D.	1858	.... Madoc.
Elwell, W.D., M.D.	1863	.... (Deceased.)
Emery, Horatio J., M.D.	1884	.... Dresden.
Empey, Charles T., M.D.	1880	.... Cross Hills, Eng.
Erly, Francis W. J., M.D.	1868	.... (Deceased.)
Evans, Henry, M.D.	1858	.... (Deceased.)
Evans, Henry, M.D.	1878	.... Picton.
*Evans, Joseph, B.A., 1855 ; M.A.	1857	.... Plainview, N. Car.
Fairbairn, Archibald C., M.D..	1871	.... Minneapolis.
Farrell, J. T., M.D.	1861	.... (Deceased.)
Farrell, Alexander G., B.A....	1885	.... Kingston.
Fee, Samuel H., M.D.	1862	.... Kingston.
Feek, Robert G., B.A.	1882	
Fenwick, Kenneth M., B.A., 1871 ; M.A., 1874 ; M.D.	1874	.... Kingston. (Professor, Royal College.)
Fenwick, Thomas M., M.D....	1864	.... Kingston. (Professor, Women's Med. College.)
Ferguson, Archibald, B.A.	1883	.... Kingston.
Ferguson, Charles F., M.D....	1859	.... Kemptville.
Ferguson, Edward G., M.D....	1863	.... Macon, Georgia.
*Ferguson, George D., B.A....	1851	.... Kingston. (Professor, Queen's College.)
Ferguson, James F., B.A.	1862	.... Napanee.
*Ferguson, John, B.A., 1876 ; M.A., 1878 ; B.D.	1879	.... Chesley.
Ferguson, Robert, B.A.	1882	.... London.
Ferguson, Robert B., M.D....	1863	.... Winnipeg.
Ferguson, Thomas B., B.A....	1863	.... Cincinnati, Ill.
Ferguson, William B., B.A....	1861	.... Napanee.
File, Albert J., M.D.	1869	.... Ameliasburg.
Fitzgerald, Eliza S., B.A.	1884	.... Cornwall.
Foley, Declan E., M.D.	1886	.... Westport.
Folger, Matthew H., B.A.	1885	.... Kingston.
Ford, Henry B., M.D.	1885	.... Westport.
Ford, Herbert D., M.D.	1874	.... Morrisburg.
Forin, Alexander, M.D.	1884	.... Melrose.

Name.	Date of Graduation.	Address.
Forrester, Edgar, B.A., 1882 ; M.D.	1884	Brockville.
Foster, Robert J., M.D.	1859	(Deceased.)
Fowler, Annie L., B.A.	1884	Kingston.
Fowler, Fife, M.D.	1863	Kingston.
<i>(President, Royal College.)</i>		
Fowler, Henry C., B.A.	1881	Toronto.
Fox, Edward C., M.D.	1864	
Foxton, Edward, M.D.	1884	
Fraleck, Edison B., B.A.	1863	Belleville.
Franklin, Benjamin W., M.D..	1856	Port Burwell.
Fraser, Adson S., M.D.	1869	Sarnia.
Fraser, Alexander G., B.A....	1862	(Deceased.)
Fraser, Archibald, B.A.	1848	(Deceased.)
*Fraser, Donald, B.A., 1864 ; M.A.	1866	Victoria, B.C.
Fraser, George L. B., B.A	1870	Ottawa.
*Fraser, James, B.A.	1864	Chatham, Q.
*Fraser, John F., B.A.	1869	Chrysler.
Fraser, John M., B.A., 1855 ; M.D.	1861	London.
*Fraser, Joshua, B.A.	1858	
Fraser, Robert N., M.D.	1884	Westmeath.
*Fraser, William, D.D.	1878	Barrie.
Frechette, Louis, LL.D.	1881	Montreal.
Froiland, Herman M., B.A., 1882 ; M.D.	1883	Toronto.
Fuller, William H., B.A., 1867 ; M.A.	1873	(Deceased.)
Galbraith, John E., M.D.	1880	(Deceased.)
*Gallaher, John, B.A.	1878	Pittsburgh.
Galligan, Thomas D., M.D.	1886	Arnprior.
Gandier, Alfred, B.A.	1884	
Garrett, Richard W., M.D.	1882	Kingston.
<i>(Professor, Royal College.)</i>		
*Geddie, John, D.D.	1866	(Deceased.)
*Geikie, A. Constable, LL.D ...	1884	Bathurst, N.S. Wales
*Geikie, John C., D.D.	1871	Barnstable, England
Gerin, John, M.D.	1872	Auburn, N.S.
Gibson, Andrew M., M.D.	1874	Clinton.
Gibson, William J., B.A., 1874 ; M.D., 1881 ; M.A.	1882	Belleville.

Name.	Date of Graduation.	Address.
Hildersleeve, James P., LL.B....	1863	.... Kingston.
Hiles, John G., M.D.....	1860	.... Brockville.
*Gill, Henry, D.D.....	1865	.... England.
Hillies, George, B.A.....	1874	.... Gananoque.
Hillies, Neil, M.D.....	1871	.... Winnipeg.
*Givan, Arpad, B.A.	1883	.... L'Amable, O.
Hivens, David A., B.A.	1878	.... Toronto.
Hleeson, James H., M.D.	1864	.... (Deceased.)
*Glassford, Thomas S., B.A....	1875	.... Richmond, O.
*Goold, Arthur J., B.A.....	1883	
*Gordon, James, B.A., 1851 ; M.A.....	1854	.... Niagara Falls.
Gordon, John G., B.A.....	1861	
Gow, Robert, B.A.....	1883	.... Carberry, Man
Gowan, James R., LL.D.....	1884	.... Barrie.
Grant, Hugh R., B.A.....	1883	.... Stellarton, N.S.
Grant, James A., B.A.....	1878	.... Ottawa.
Grant, Norman M., B.A.....	1886	.... Stellarton, N.S.
*Grant, Peter, D.D.....	1868	.... Dundee, Scotland.
*Grant, William, D.D.....	1883	.... Shoalhaven, N.S.W.
Grasse, Sydney D., M.D.....	1864	.... Syracuse, N.Y.
*Gray, John, B.A., 1873; M.A.,	1876	.... Orillia.
Gunsolus, Kenneth, M.D.....	1871	
Hackett, Joseph, M.D.....	1858	
Halliday, Henry, B.A.....	1884	.... Thorold.
Hamilton, Andrew, B.A.....	1855	.... (Deceased.)
Hamilton, David, M.D.....	1862	.... Batavia, N.Y.
Hamilton, John, B. A., 1878 ; M.D.....	1886	.... Woodhill.
Hanna, James E., M.D.....	1886	.... Kemptville.
Harkness, Thomas F., B.A.....	1862	.... (Deceased.)
Harper, John M., B.A.....	1882	
Harrison, T. S., M.D.....	1869	.... Selkirk.
*Hart, Thomas, B. A., 1860 ; M.A., 1868 ; B.D.....	1880	.... Winnipeg.
<i>(Professor, Manitoba College.)</i>		
Harvey, Albert E., M.D.....	1865	.... Watford.
*Hay, John, B.A., 1882 ; B.D.,	1885	.... Campbellford.
Hay, William, B.A.....	1883	.... Kingston.
Heath, Frederick C., B.A., 1878; M.D.	1886	.... Brantford.

Name.	Date of Graduation.	Address.
Heenan, Daniel, B.A.....	1849	(Deceased.)
Heggie, David, M.D.....	1865	Brampton.
Henderson, Donald, M.D.....	1858	Winnipeg.
Henderson, George F., B.A....	1884	Toronto.
Henderson, Johnson, B.A.....	1885	Wallbridge.
Henderson, William, M.D.....	1859	(Deceased.)
*Henderson, William, D.D.....	1862	(Deceased.)
Henderson, William H., M.D...	1879	Kingston.
<i>(Professor, Royal College.)</i>		
Hendry, George, M.D.....	1869	(Deceased.)
Herald, John, B.A., 1876; M.A., 1880; M.D.....	1884	Kingston.
Herriman, Weston Leroy, M.D.,	1855	Port Hope.
Herrington, Anthony W., M.D.,	1881	(Deceased.)
Hickey, Daniel C., M.D.	1883	Kingston.
Higgins, Edward M., M.D.....	1877	Hamilton.
Higginbotham, William, M.D...	1871	Omeme.
Hillier, Solomon C., M.D.....	1869	Enniskillen.
Hillier, William, M.D.....	1855	(Deceased.)
Hoare, Walter W., M.D.....	1864	Strathroy.
Hodge, George, M.D.....	1870	Mitchell.
*Hogg, John, D.D.....	1871	(Deceased.)
Holmes, F. S. Leroy, M.D.....	1877	Almonte.
Hooper, Ebenezer, M.D.....	1885	Kingston.
Hooper, Edmund J., B.A., 1858; M.A.....	1861	Napanee.
Hooper, Josephine A., B.A....	1885	Kingston.
Hope, James A., B.A., 1862 ; M.A.	1865	(Deceased.)
Horsey, Alfred, M.D.....	1865	Ottawa.
Horsey, Edward H., M.D.....	1860	Chicago.
Horsey, Herbert E., B.A.....	1886	Kingston.
Horton, Robert N., M.D.....	1879	Lyn, O.
Hossie, Thomas R., M.D.....	1879	Gouverneur, N. Y.
Hourigan, Andrew R., M.D....	1877	Peterboro'.
Houston, William R., M.D.....	1871	Chatham, O.
Howell, George W., M D	1867	Tweed, O.
Howells, Thomas B., M D.....	1863	(Deceased.)
Hubbs, Henry A. M., M.D.....	1877	Bay City, Mich.
Hume, John P., B.A.....	1881	
*Hunter, Alexander, B.A.....	1861	(Deceased.)

Name.	Date of Graduation	Address.
Hunter, James McF., M.A.	1883	Barrie.
Hutcheson, James, B.A.	1881	Brockville.
Hutchison, John, M.D.	1886	Meaford.
Ingersoll, Isaac F., M.D.	1863	Picton.
Ireland, Charles F., B.A.	1866	Winnipeg.
Irvine, William H., B.A.	1877	Kingston
Irving, Lennox, B.A.	1886	Pembroke.
Irwin, Chamberlain A., M.D.	1863	Kingston.
<i>(Professor, Royal College.)</i>		
Jamieson, Alexander, B.A.	1863	(Deceased.)
Jamieson, Archibald, M.D.	1886	Pakenham.
Jamieson, John, M.D.	1881	Kars.
*Jardine, Robert, B.A., 1863 ; M.A., 1866 ; B.D.	1866	Brockville.
Jarvis, Charles E., M.D.	1882	Nilestown.
Jack, George G., M.D.	1886	Belleville.
*Johnson, Frederick W., B.A. ...	1886	Chaumont, N.Y.
Johnson, William, B.A., 1849 ; M.A.	1852	Regina, Assini.
Johnston, Absalom H. J., M.D.,	1872	Brockville.
Johnston, David A., M.D.	1881	Bridgewater.
Johnston, Joshua R., B.A.	1882	Carleton Place.
Johnstone, David, M.D.	1868	Kincardine.
Jones, Henry M., M.D.	1866	Marmora
Jones, John, M.D.	1874	Kemptville.
Joy, Sylvanus, M.D.	1857	Woodstock.
Judson, George W., M.D.	1879	Westport.
Kahkewaquonaby, M.D.	1866	Hagersville.
Kay, William, M.A.	1855	Goderich.
Kellock, John D., M.D.	1862	Perth.
Kelly, David, M.D.	1861	(Deceased.)
Kelly, Edward J., M.D.	1861	Ottawa.
Kelly, T. Webster, B.A.	1886	
*Kemp, Alexander F., LL.D. ...	1871	(Deceased.)
Kemp, James A., M.D.	1861	Leamington.
Kennedy, Alexander, M.D.	1873	Bath.
Kennedy, Jacob B., M.D.	1876	Welland.
Kennedy, John D., B.A.	1885	Pembroke.
Kennedy, Roderick, M.D.	1863	Brainard, Minn.
Kennedy, William B., M.D.	1878	
Kertland, Edward H., M.D.	1865	Toronto.

Name.	Date of Graduation.	Address.
Kidd, John F., M.D.....	1883	....Ottawa.
Kidd, Edward, M.D.....	1871	....Wellington.
Kidd, Peter E., M.D.....	1878	....Midland City.
Kilborn, Roland, M.D.....	1879	....Toledo, O.
Kincaid, Robert, M.D.	1863	....Peterboro'.
Knight, Archibald P., B.A., 1872, M.A.	1875	....Kingston.
Knight, John H., M.D.	1880	....Sombra, O.
Knox, Henry M., M.D.	1882	....Portage-du-Fort, Q.
Koyl, Frederick, M.D.....	1882	....Ada, Minn.
Kyle, William A., M.D.....	1885	....Manotic.
Lafferty, James, M.D.....	1871	
Lafferty, William A., M.D.....	1879	....(Deceased.)
Laidlaw, Alexander, M.D.....	1857	....(Deceased.)
Lake, Charles B., M.D.....	1866	....Ridgetown.
Lambert, Robert, M.D.....	1859	....Windsor.
Lane, Isaac J., M.D.....	1886	....Mooer's Forks, N. Y.
Lane, Joseph W., M.D.....	1875	....Mallorytown.
Lang, George R., B.A.....	1885	
*Lang, William A., B.A., 1873; M.A.	1876	....(Deceased.)
*Langill, Paul F., B.A.....	1881	
Lavell, Charles H., M.D.	1873	....(Deceased.)
Lavell, John R., B.A.....	1877	....Smith's Falls.
Lavell, Michael, M.D.....	1863	....Kingston.
<i>(President, Women's Medical College.)</i>		
Lavell, William A., M.D. . . .	1881	....Smith's Falls.
Lawlor, Michael, M.D.....	1857	....(Deceased.)
Leavitt, Arvin S., M.D.....	1869	....Westport.
Lennox, David, B.A.....	1861	
Leonard, Raymond A., M.D....	1879	....Napanee.
*Lewis, Lewis, B.A.....	1881	....Derby, Eng.
Lewis, W. Frederick, M.D....	1878	....Napanee.
*Lindsay, John, B. A., 1852 ; M.A. . . .	1854	....(Deceased.)
*Lindsay, Peter, B.A.....	1851	....New Richmond, Q.
*Linton, Adam R., B.A., 1881 ; B.D.....	1885	....Orono.
Litchfield, John, M.D.....	1863	....(Deceased.)
*Livingston, John, B.A.....	1857	....(Deceased.)
*Livingston, Peter S., B.A.....	1870	....(Deceased.)

Name.	Date of Graduation.	Address.
*Lochead, John S., B.A., 1861; M.A.....	1863	....Parkhill.
Lorne, Most Noble the Marquis of, LL.D.	1879	....Inverary Castle.
*Love, Andrew T., B.A.....	1878	....Quebec.
Lunam, Henry, B.A.....	1870	....Campbellton, N.B.
Lynch, Dennis P., M.D.....	1878	....Almonte.
Lyon, Horatio V., B.A.....	1885	....Kingston.
Machar, John M., B.A.....	1857	....Kingston.
Mair, Alexander, B.A.....	1851	....Markham.
Malloch, Archibald E., B.A., (M.D).....	1862	....Hamilton.
Malloch, Edward G., B.A.....	1860	....Perth.
Malloch, George, B.A.....	1865	....Arnprior.
Malloch, George W., B.A.....	1850	....Paisley, O.
*Mann, Alexander, D.D.	1876	....(Deceased.)
Mann, James, M.D.....	1869	....Renfrew.
Mark, Robert, M.D.....	1867	....Ottawa.
Marshall, John, B.A.....	1886	....Picton.
Mason, James W., B.A.....	1878	....(Deceased.)
Massie, John, M.D.	1865	....Norwood.
Masson, Thomas, M.D.....	1875	....Cape Vincent.
Mather, William M., M.D.....	1886	....Consecon.
Matheson, Murdoch, M.D.....	1870	....Aramac, Queensland.
Mattice, William D., B.A.....	1847	....(Deceased.)
May, John, B.A., 1857; M.A...	1861	....Winnipeg.
Meadows, R. W., M.D.....	1862	....H. M. Service.
Meagher, Daniel, M.D.....	1867	....Rimouski.
Meikle, William, B.A.....	1881	
Mellow, Samuel S., M.D.....	1886	....Dundas.
Mercer, John F., M.D.....	1855	....Goderich.
Miller, John, B.A.	1886	....Peterboro.
Miller, Lindsay F., M.D.	1877	....Woodhill.
Miller, Thomas, B.A.....	1852	....Milton.
Miller, Thomas, B.A, M.D....	1854	....Hamilton.
*Milligan, George, B.A.....	1862	....Toronto.
Milliner, William S., M.D	1864	....Rochester, N. Y.
Mills, William G., B.A.	1885	....Burnbrae.
Minor, Silas, M.A.	1865	....(Deceased.)
Mitchell, George W., B.A.....	1885	....Glasgow, Scotland.
Monro, John C., M.D.....	1867	....South Finch.
Moore, Andrew, M.D.....	1865	....(Deceased.)

Name.	Date of Graduation.	Address.
*Moore, John, B.A.	1881	Allenford.
Moore, Thomas A., M.D.	1883	Calgary.
Moore, Vincent H., M.D.	1870	Brockville.
Morden, James B., M.D.	1865	Picton.
Morden, John H., M.D.	1859	(Deceased.)
Mordy, Alfred A., M.D.	1882	Kars.
*Mordy, John, B. A., 1875 ; M.A.	1878	Mildmay.
Morris, Alexander C., B.A.	1882	Toronto.
Morris, William, B.A.	1882	Toronto.
*Morrison, Duncan, B.A., 1866 ; M.A.	1868	Owen Sound.
Morrison, Duncan, B.A.	1862	Owen Sound.
Mostyn, William, M.D.	1858	Deceased.
Mowat, Herbert M., B.A., 1881 ; LL.B.	1886	Toronto.
*Mowat, John B., B.A., 1845 ; M.A.	1847	Kingston.
<i>(Professor, Queen's College.)</i>		
Mowat, Oliver, LL.D.	1872	Toronto.
Muckleston, John S., B.A.	1865	Kingston.
Mudie, John, B.A.	1863	Kingston.
Muir, James, B.A.	1861	Fergus.
*Muir, James B., B.A., 1865 ; M.A.	1869	Huntingdon, Q.
*Muir, James C., D.D.	1858	(Deceased.)
*Muir, Peter D., B.A.	1856	(Deceased.)
Mullan, Nathaniel S., B.A.	1885	Fergus.
Mundell, David E., B.A., 1883 ; M.D.	1886	Gananoque.
Mundell, John, M.D.	1886	Kingston.
Mundell, William, B.A.	1875	Kingston.
Munro, David, M.D.	1867	Perth.
Murphy, John B., M.D.	1876	Belleville.
*Murray, Isaac, D.D.	1876	Vale Colliery, N.S.
*Murray, James, B. A., 1882 ; B.D.	1884	Streetsville.
*Murray, Robert C., B.A.	1882	Indore, India.
Macadam, Samuel T., M.D.	1873	Pembroke.
*Macalister, John, B.A.	1865	Ashton.
Macarthur, James, B.A., 1875 ; M.D.	1878	London.

Name.	Date of Graduation.	Address.
Macarthur, Duncan, B.A.	1878	Ailsa Craig.
*Macaulay, Evan, B.A.	1864	Crieff.
*Macdonald, Alexander, B.A. ...	1861	Duntroon.
Macdonald, Alex. R., M.D.	1858	Brighton.
*Macdonald, Clinton D., B.A. ...	1886	Thorold.
Macdonald, Colin, B.A.	1855	(Deceased.)
*Macdonald, Donald, B.A.	1854	(Deceased.)
*Macdonald, Duncan, B.A., 1859; M.A.	1863	Carleton Place.
Macdonald, Herbert S., B.A., 1859; M.A.	1861	Brockville.
Macdonald, George, B.A., 1878; B.Sc.	1878	Toronto.
Macdonald, Hugh N., M.D.	1881	Lake Ainslie, N.S.
Macdonald, Sir John A., LL.D.,	1863	Ottawa.
Macdonald, John A., M.D.	1877	Port Arthur.
Macdonald, Patrick A., B.A.	1876	Winnipeg.
Macdonell, Æneas J., B.A.	1884	Morrisburg.
*Macdonnell, Daniel J., B.A., 1858; M.A.	1860	Toronto.
Macdonnell, George M., B.A. ..	1860	Kingston.
Macdonnell, John M., B.A.	1868	(Deceased.)
Mackie, Daniel H., M.D.	1884	Belleville.
*Mackenzie, Archibald A., B.A., 1877; B.Sc.	1877	London, Eng.
*Mackerras, John H., B.A., 1850; M.A.	1852	(Deceased.)
*Maclean, Matthew W., B.A., 1869; M.A.	1872	Belleville.
*MacLennan, Alexander, B.A. ...	1857	(Deceased.)
MacLennan, Donald, B.A., 1848; M.A.	1862	
MacLennan, Donald B., B.A., 1857; M.A.	1861	Cornwall.
MacLennan, Finlay M., B.A.	1879	(Deceased.)
MacLennan, James, B.A., 1849; LL.D.	1885	Toronto.
MacLennan, John, B.A.	1855	Lindsay.
MacLennan, Kenneth, B.A., 1849; M.A.	1868	Whitby.
MacLennan, Roderick J., B.A. ...	1884	Toronto.

Name.	Date of Graduation.	Address.
MacLennan, William, B.A., 1864; M.A.	1866	.... (Deceased.)
Macmillan, Duncan, B.A.	1857	.... London.
*Macnab, Finlay F., B.A.	1859	.... Arnprior.
Macnaughton, James P., B.A.	1884	.... New York.
Macnee, James H., B.A.	1885	.... Toronto.
Macnee, Peter C., B.A.	1873	.... Picton.
Macpherson, Alexander, M.D.	1862	.... (Deceased.)
Macpherson, Henry, B.A.	1851	.... Owen Sound.
Macpherson, James P., B.A., 1857; M.A.	1865	.... Ottawa.
*Macrae, Donald, D.D.	1881	.... St. John, N.B.
*McArthur, George, B.A.	1881	.... Cardinal, O.
McArthur, John A., B.A.	1880	.... Kincardine.
*McAulay, Alexander, B.A.	1883	.... McLaren's Mills.
McBain, Alexander, B.A., 1860; M.A.	1862	.... (Deceased.)
McBain, Alexander G., B.A.	1865	.... Montreal.
McCallum, Archibald B., B.A., 1880; M.A.	1881	.... Listowel.
McCammon, C. G., M.D.	1884	.... Clifton Springs, N.Y.
McCammon, James, M.D.	1863	.... (Deceased.)
McCammon, James A., M.D.	1879	.... Gananoque.
McCannell, Donald, B.A.	1878	.... (Deceased.)
McCardel, Edward J., M.D.	1886	.... Dundas.
*McCaul, James, B.A.	1859	.... Montreal.
McColl, Allan E., B.A.	1885	.... Belleville.
*McColl, Evan C. W., B.A.	1866	.... Middleville.
McConnell, Benjamin J., M.D.,	1881	.... Nelson, Man.
McCormack, Joseph, B.A.	1879	.... Lansdowne.
McCracken, John I., B.A.	1874	.... Ottawa.
McCuaig, Herbert M., B.A.	1884	.... Picton.
McCulloch, Andrew, B.A., 1871; M.A.	1874	.... Thorold.
McCullough, William S., M.D.	1875	.... (Deceased.)
McDowell, Charles, B.A.	1877	.... Renfrew.
McDowell, James A., B.A.	1867	.... Sarnia.
*McEwen, Jas., B.A., 1852; M.A.	1854	.... Hamilton.
McGhie, George S., M.D.	1883	.... Elgin.
*McGillivray, Alexander, D.D.	1858	.... (Deceased.)
McGillivray, Alice, M.D.	1884	.... Kingston.

Name.	Date of Graduation.	Address.
*McGillivray, Daniel, B.A.	1864	London.
McGillivray, Farquahar, B.A.	1852	Ottawa.
*McGillivray, Malcolm, B. A., 1872 ; M.A.	1874	Perth.
McGillivray, Neil J., B.A.	1848	
McGregor, Peter C., B.A.	1866	Almonte.
*McGregor, P. G., D.D.	1876	(Deceased.)
McGuire, Thomas H., B.A.	1870	Kingston.
McGuirl, Thomas H., B.A.	1886	Sarnia.
McGurn, Joseph H., M.D.	1881	(Deceased.)
McIntyre, Donald M., B.A.	1874	Kingston.
McIntyre, Duncan, M.D.	1864	Wardsville.
McIntyre, John, B.A.	1847	(Deceased.)
McIntyre, J., B.A., 1861 ; M.A.,	1872	Kingston.
McKay, Donald G., B.A.	1865	(Deceased.)
*McKay, George L., D.D.	1880	Tamsui, Formosa.
McKay, Matthew W., B.A.	1879	
*McKay, Roderick, B.A., 1881 ; B.D.	1886	Renfrew.
*McKay, William E., B.A.	1856	(Deceased.)
*McKee, William, B.A.	1872	Alliston.
McKellar, Dugald, M.D.	1855	(Deceased.)
McKenzie, Andrew, M.D.	1862	(Deceased.)
McKenzie, Edward M.D.	1860	Smith's Falls.
McKenzie, John M., B.A.	1856	Sarnia.
McKinnon, Malcolm, B.A.	1885	Demorestville.
McKinnon, John, B.A.	1886	Sunbury.
McKillop, Alexander, B.A.	1877	Pembroke.
*McKillop, Charles, B.A.	1875	Admaston.
McLachlan, Alexander, B.A.	1885	New York.
McLaughlin, Edward, M.D.	1886	Dundela.
McLaren, Alexander, M.D.	1865	Shannonville.
*McLaren, Ebenezer D., B.A., 1870 ; M.A., 1873 ; B.D.,	1873	Brampton.
McLaren, James, B.A.	1850	Nelson, O.
McLaren, John B.A.	1860	(Deceased.)
McLaren, John Brown, B.A.	1876	Morden, Man.
McLaren, Peter, B.A.	1854	(Deceased.)
McLaren, Peter, LL.D.	1868	(Deceased.)
McLaren, Peter, B.A.	1869	Orms town.
McLaren, William, D.D.	1883	Toronto.

(Professor, Knox College.)

Name.	Date of Graduation.	Address.
*McLean, Alexander, B.A.....	1878	....(Deceased.)
McLean, Caird R., M.D.....	1859	....Meaford.
McLean, Donald J., B.A., 1855; M.A. ....		....Arnprior.
McLean, Solomon C., M.D.....	1874	....Spencerville.
McLean, Thomas F., M.D.....	1863	....Goderich.
McLennan, Alexander S., M.D.,	1873	....Chicago.
McLeod, Alexander, B.A.....	1883	....Mentona, Man.
McLeod, James A. F., B.A.....	1854	
*McLeod, John, B.A.....	1883	....Antwerp, N.Y.
McMahon, James, M.D.....	1878	....Texarkana, Texas.
McMillan, Hugh H., B.A.....	1880	....Dakota.
*McMillan, J., B.A., 1862; B.D.	1865	....Halifax.
*McMoline, John, D.D.....	1865	....(Deceased.)
*McMoline, John K., B.A., 1859; M.A.	1863	....Kingston.
*McMoline, Samuel, B.A., 1865, M.A.	1872	....Pakenham.
McMurchy, Archibald, M.D....	1883	....King.
McMurchy, Archibald, B.A.....	1875	....Nipissing.
McNichol, Eugene C., M.D.....	1877	....Cobourg.
*McPhaden, Hugh, B.A.....	1881	....Manilla.
McRae, Thomas W. R., B.A....	1886	....Belleville.
*McTavish, Alexander, B.A.....	1882	....Chater, Man.
*McTavish, Daniel, B.A., 1881; M.A., 1882; D.Sc.	1885	....Lindsay.
McTavish, Duncan B., B.A., 1870; M.A.	1873	....Ottawa.
*McQuarrie, Alex. R., B.A.....	1862	....Burlington, Vt.
McVety, Albert F., M.D.....	1886	
*Nairn, Robert, B.A.....	1879	
*Neill, Robert, D.D.....	1872	....Burnbrae.
*Nelles, Samuel S., D.D.....	1861	....Cobourg.
<i>(Principal, Victoria University.)</i>		
Neish, James, M.D.....	1865	....Port Royal, Jamaica
Nesbitt, Edward, M.D.....	1868	....Deceased.
Newlands, George, M.D.....	1879	....Morristown, Minn.
Newlands, Isaac, B.A.....	1884	....Kingston.
Newton, John, M.D.....	1866	....Deseronto.
Nichol, James, M.D.....	1863	....Deceased.
*Nicholson, Alex. B., B.A.....	1867	....Kingston.
<i>(Assistant Professor and Lecturer, Queen's College.)</i>		

Name.	Date of Graduation.	Address.
Nicol, William, B.A.....	1883	Cataraqui. (<i>Tutor in Chemistry, Queen's College.</i>)
*Nimmo, John H., B.A., 1867 ; M.D.....	1886	Birmingham, O.
*Nish, James, D.D.....	1881	Sandhurst, Victoria.
*Niven, David P., B.A.....	1867	Dromore.
Noel, John V., B.A.	1863	Deceased.
Nugent, Andrew, B.A.....	1876	Ottawa.
Odium, John, M.D.....	1880	Sparta.
Oldham, Edmund, M.D.....	1881	Chatsworth.
Oliver, Alfred S., M.D.....	1863	Kingston. (<i>Professor, Royal College and Women's Med. College.</i>)
Oliver, John K., M.D.....	1868	(Deceased.)
Oliver, Marion, M.D.....	1886	Mhow, India. (<i>Medical Missionary.</i>)
O'Loughlin, Robert S., B.A., 1865 ; M.A.	1873	New York.
O'Reilly, Anthony, M.D.....	1861	(Deceased.)
O'Reilly, James R., B.A.....	1882	Toronto.
O'Shea, James F., M.D.....	1881	Campbellford.
O'Sullivan, John, M.D.....	1868	Peterboro.
*Oxley, Malcolm S., B.A.....	1878	Montreal.
Page, Thomas A., M.D.....	1883	Brockville.
Parker, Robert, M.D.....	1861	Stirling.
Patteson, Richard L., M.D.....	1885	Dublin, Ireland.
*Paterson, Andrew, B.A.....	1884	Eganville.
Patterson, James R., M.D.....	1867	Tiverton.
*Patterson, Gilbert C., B.A., 1878 ; M.A.....	1880	Beaverton.
Perrault, Julien, M.D.....	1857	San Francisco, Cal.
Perrin, Louis, B.A.....	1884	Kirkfield.
Phelan, Daniel, M.D.....	1877	Kingston. (<i>Professor, Women's Medical College.</i>)
Pitblado, Colin, M.D.....	1886	Truro, N.S.
*Pollock, Peter M., B.A.....	1881	
*Pollok, Allan, D.D.	1877	Halifax. (<i>Professor, Theological Hall.</i>)
Pope, Stephen D., B.A.....	1861	Victoria, B.C.
Potter, Levi, M.D.	1870	Enniskillen.
Potter, Samuel, M.D.....	1875	Kemptville.

Name.	Date of Graduation.	Address.
Potter, Thomas, M.D.....	1876	.... Hazledon.
Preston, Richard, M.D.....	1875	.... Carleton Place.
Preston, Robert H., M.D.....	1864	.... Newborough.
Price, Cornelius V., LL.B.....	1863	.... Kingston.
Price, Robinson V., M.D.....	1866	.... Bath.
*Pringle, John, B.A.....	1875	.... Kildonan, Man.
Pringle, Robert H., B.A.....	1882	.... Brampton.
Purdy, Alvanly N., M.D.....	1873	.... Sydenham.
Purdy, Charles W., M.D.....	1869	.... Chicago.
Ramsay, Robert, M.D.....	1861	.... (Deceased.)
Rathbun, Herbert B., B.A.....	1883	.... Deseronto.
Reeve, Richard A., M.D.....	1865	.... Toronto.
Reeve, Henry H., M.D.....	1880	.... Minesing, O.
Reeve, John L., M.D.....	1882	.... Clinton.
*Reid, William, D.D.....	1876	.... Toronto.
Reid, W. D., M.D.....	1880	.... Montpelier, Vt.
Reily, Adrian, M.D.....	1862	.... Welland.
Renaud, Allan C., B.A.....	1864	.... Montreal.
Reynolds, Helen E., M.D.....	1885	.... Toronto.
Ritchie, George, B.A., 1873 ; B.Sc.....	1878	.... Toronto.
Robertson, Donald M., B.A....	1886	.... Williamstown.
Robertson, Miles S., B.A.....	1884	.... Violet.
<i>(Tutor in German, Queen's College.)</i>		
Roche, William P., M.D.....	1860	.... (Deceased.)
Rockwell, Albert, M.D.....	1868	
Rockwell, Ashbel S., M.D.....	1872	.... Rochester, N.Y
Rogers, R. Vashon, B.A.....	1861	.... Kingston.
Rogers, David H., M.D.....	1881	.... Gananoque.
Rollo, James, B.A.....	1852	.... Toronto.
Rose, George R., B.A., 1852 ; M.D.....	1860	.... (Deceased.)
*Ross, Donald, B.A., 1860; M.A., 1862; B.D.....	1863	.... Kingston.
<i>(Professor, Queen's College.)</i>		
Ross, George S., B.A.....	1856	
*Ross, James, D.D.....	1864	.... (Deceased.)
*Ross, James, B.A., 1878; M.A., 1881; B.D.....	1881	.... Perth.
Ross, John Reid, B.A.....	1862	
Ross, Thomas K., M.D.....	1863	

Name.	Date of Graduation.	Address.
*Ross, Walter, B.A., 1859; M.A.,	1862	(Deceased.)
Ross, William A., B.A.....	1855	Ottawa.
*Romanes, George, LL.D.....	1866	(Deceased.)
Rothwell, William, B.A.....	1881	Dutton.
Rourke, Francis, M.D.....	1872	Port Lambton.
Rowse, Mark R., B.A.....	1870	Bath.
Roy, Henry, M.D.....	1885	
Russell, Donald B., M.D.....	1885	
Russell, Samuel, B.A.....	1882	Deseronto.
Ruttan, Joseph B., M.D.....	1863	Wellington.
Rutherford, David B., M.D....	1882 ...	Morrisburg.
Rutherford, James, M.D.....	1870	Orono.
Saunders, Herbert J., M.D.....	1869	Kingston.
<i>(Professor, Royal College, and Women's Medical College.)</i>		
Saunders, Lawrence, M.D.....	1868	(Deceased.)
Sayer, Alexander, M.D.....	1870	Marion, N.Y.
Scales, Thomas, B.A.....	1878	Newborough.
*Scott, Alexander H., B.A., 1875;		
M.A.	1878	Owen Sound.
Scott, Colin A., B.A.....	1885	Ingersoll.
Scott, William S., M.D.....	1855	Southampton.
Scovill, Simmons S., M.D.....	1877	Rat Portage.
Searls, Abraham W., M.D.....	1864	(Deceased.)
*Sedgwick, Robert, D.D.....	1878	(Deceased.)
Shannon, John R., B.A.....	1885	Montreal.
Shannon, Lewis W., B.A.....	1877	Kingston.
Shannon, Robert W., B.A., 1875;		
M.A.	1879	Kingston.
Shaw, John M., B.A., 1883 ;		
M.D.	1886	Renfrew.
*Sheraton, James P., D.D.....	1882	Toronto.
<i>(President, Wycliffe College.)</i>		
Shibley, Henry T., B.A.....	1881	Toronto.
Shier, James, B.A.....	1863	
Shirley, Joseph W., M.D.....	1863	Watford.
Shortt, Adam, B.A., 1883; M.A.,	1884	Kingston.
<i>(Tutor in Philosophy, Queen's College.)</i>		
Shorey, Edmund C., B.A.....	1886	Cataraqui.
*Sieveright, James, B.A.....	1855	Huntsville.
Sieveright, James A., M.D.....	1870	(Deceased.)

Name.	Date of Graduation.	Address.
Simpson, James, B.A.	1864	
Skinner, Henry, M.D.	1862	.... (Deceased.)
Skinner, John S., B.A.	1883	.... Kingston.
*Smellie, George, D.D.	1885	.... Fergus.
Smith, Alexander L., B.A.	1883	.... Cornwall.
Smith, Elizabeth, M.D.	1884	.... Hamilton.
Smith, Frederick B., M.D.	1886	.... Cape Vincent.
Smith, George, M.D.	1858	.... (Deceased.)
Smith, Gordon, J., B.A.	1886	.... Peterborough.
*Smith, James C., B.A., 1861 ; M.A., 1863 ; B.D.	1880	.... Guelph.
Smith, John R., M.D.	1863	.... (Deceased.)
Smith, Robert A., M.D.	1883	.... Manotick.
Smyth, William J., B.A.	1881	.... Montreal.
Snider, Samuel H., M.D.	1881	.... Carman, Man.
Snook, Marcus S., B.A.	1881	.... Ontario, Cal.
Snowdon, John M., B.A.	1885	.... Toronto.
Somerville, James, B.A., 1858 ; M.D.	1866	.... Menamane, Mich.
*Somerville, James H., B.A.	1881	.... Toronto.
Spankie, William, B.A., 1882 ; M.D.	1885	.... Wolfe Island.
Spafford, H W., M.D.	1855	.... (Deceased.)
Sparham, George S., M.D.	1859	.... North Augusta.
Spear, Hugh, M.D.	1878	.... Toronto.
Spence, Alexander, D.D.	1864	.... (Deceased.)
Spencer, Henry, M.D.	1862	.... (Deceased.)
Spooner, George D., M.D.	1860	.... (Deceased.)
Spooner, Hiram R., M.D.	1869	.... Angus, O.
Spooner, Margaret M., B.A.	1886	.... Glenburnie.
Sproat, Alexander, B.A.	1853	.... { Prince Albert, Saskatchewan.
Squire, William W., B.A., 1854 ; M.A.	1864	.... (Deceased.)
Steele, Jacob, B.A.	1883	.... Paisley, O.
Stevenson, Alex. J., B.A.	1882	.... Minden.
*Stevenson, John F., D.D.	1880	.... Montreal.
Stewart, Alexander J., M.D.	1869	.... Sutton, O.
Stewart, Daniel W., B.A.	1884	.... Renfrew.
Stewart, John M., M.D.	1882	.... Chesley.
Stewart, William, B.A.	1879	.... Lancaster.
Stirling James A., M.D.	1885	.... Kingston.

ame.	Date of Graduation.	Address.
Stirling, John E., M.D.....	1884	
Storms, Douglas G., M.D.....	1886	.... Hamilton.
Stowell, Olmsby O., M.D.....	1869	
Strange, John, B.A., 1877; LL.B.,	1883	.... Kingston.
*Stuárt, James G., B.A.....	1876	.... Balderson, O.
Stuart, Irwin, B.A.....	1870	.... (Deceased.)
Sullivan, Hon. Michael, M.D....	1858	.... Kingston.
<i>(Professor, Royal College and Women's Medical College.)</i>		
Sullivan, Thomas, M.D.....	1863	.... St. Catharines.
Sullivan, William, B.A.....	1862	.... Kingston.
Sutherland, Robert, B.A.....	1852	.... (Deceased.)
Sweetland, John, M.D.....	1858	.... Ottawa.
Switzer, Wilson J., M.D.....	1862	.... (Deceased.)
Symington, Thomas J., M.D....	1881	.... Camlachie.
Tarbell, Horace S., B.A.....	1862	
Tassie, William, LL.D.....	1871	.... Peterboro'.
Taylor, James B., M.D.....	1864	.... Tara.
Taylor, William F., M.D.....	1861	.... Gylpie, Queensland.
Thibodo, Augustus J., B.A.....	1854	.... Prescott, Arizona.
Thibodo, Oliver, M.D.....	1857	.... Phoenix, Arizona.
Thibodo, Robert, B.A., 1862 ; M.D.....	1862	
Thibodo, William B., B.A., 1862; M.A.....	1865	.... Winnipeg.
Thirkell, William G., M.D.....	1861	.... Sodus, N.Y.
Thompson, George, B.A.....	1863	.... Grangemouth, Eng.
Thompson, George M., B.A....	1878	.... Glasgow, Scotland.
Thompson, John, B.A.....	1855	
*Thompson, John R., B.A.....	1865	.... Olympia, Wash. Ter.
Thorburn, John, LL.D.....	1880	.... Ottawa.
Thornton, Thomas H., M.D....	1870	.... Consecon.
Thornton, William M., M D....	1864	.... Stoney Creek, O.
Todd, Alpheus (C.M.G.), LL.D..	1883	.... (Deceased.)
Tracey, Robert, M.D.....	1862	.... Belleville.
Tracey, Thomas B., M.D.....	1865	.... (Deceased.)
Trousdale, James D., M.D.....	1860	.... (Deceased.)
Tuttle, Leslie, M.D.....	1875	.... Tweed.
*Ure, Robert, D.D.	1876	.... Goderich.
Valleau, George Z., M.D.....	1867	
Van Allan, John R., M.D.....	1871	.... Kansas City.
Van Vlack, Gilbert J., M.D....	1869	.... San Francisco, Cal.
Waddell, W. H., M.D.....	1880	.... Perth.

Name.	Date of Graduation.	Address.
Wafer, Francis M., M.D.....	1867	....(Deceased.)
Walkem, William W., M.D....	1873	....Nanaimo, B.C.
Walker, Allan H., M.D.....	1867	....Dundas.
*Wallace, Alexander, B.A.....	1847	....(Deceased.)
Wallace, David, M.D.....	1881	....Metcalf, O.
Wallbridge, Asa F., B.A.....	1854	....Newcastle.
Ward, G. C. Tremaine, M.D....	1869	....Napanee.
*Wardrope, Thomas, D.D. . . .	1878	....Guelph.
Wartman, Philander C., M.D..	1864	....(Deceased.)
Waters, John F., B.A.....	1884	....Cornwall.
*Watson, Andrew, B.A.....	1861	....Lucknow.
Watson, Charles V., M.D.....	1863	....Wellington.
*Watson, David, B.A., 1850 ; M.A., 1854 ; D.D.....	1886	....Beaverton.
Watson, Donald, B.A.....	1851	....(Deceased.)
*Watson, Peter, B.A.....	1852	....Williamstown.
Watts, Ezra J., M.D.....	1886	....Easton's Corners.
Webster, James, B.A.....	1857	....(Deceased.)
Webster, George R., B.A.....	1875	....Brockville.
Webster, W. J., M.D.....	1884	....White Lake, Dak.
Weekes, W. J., M.D.....	1865	....Woodstock.
Weir, William, M.D.....	1861	....(Deceased.)
Westlake, Henry W., B.A.	1883	....Exeter.
*White, Joseph F., B.A.	1877	....Toronto.
Whiteman, Richard, B.A.....	1886	....Iroquois.
Williams, Herbert S., M.D.....	1884	....Mount Vernon, Dak.
*Willis, Michael, LL.D.....	1861	....(Deceased.)
Wilson, Charles J. C., M.D....	1869	....Montreal.
Wilson, John A., M.D.....	1863	....Cuthbert, Ga.
Wilson, Thos., B.A., 1877; M.D..	1880	....Quebec.
Wood, Isaac, B.A.	1884	....Kingston.
Wright, Edward W., M.D.....	1886	....
Wright, John J., B.A.....	1885	....Merrickville.
Wylie, James, B.A.....	1864	....Manitoba.
Yates, Horatio, M.D.....	1863	....(Deceased.)
Yates, Octavius, M.D.....	1856	....(Deceased.)
*Yeomans, George A., B.A.....	1863	....Dunnville.
Yeomans, Horace P., B.A., 1860; M.D.	1863	....Mount Forest.
Young, Daniel, M.D.....	1862	....Conway.
Young, David, M.D.	1871	....Lower Fort Garry, Man.

Name.	Date of Graduation.	Address.
Young, Frederick M., B.A.....	1886	Napanee.
*Young, George P., LL.D.....	1882	Toronto.
<i>(Professor, University College.)</i>		
Young, Henry P., B.A.....	1883	Napanee.
*Young, John, B.A., 1882; M.A.	1884	
Young, Sir William, LL.D.....	1881	Halifax.
Young, William J., M.D.....	1883	Wingham.
Yourex, John McGill, M.D.....	1876	Warsaw.

FELLOWS OF ROYAL COLLEGE PHYSICIANS AND SURGEONS, KINGSTON.

Name.	Present Address.	Year of Graduation.
Bethune, Alexander.....	Wingham.....	1874
Cluness, William R.....	Sacramento, Cal.....	1871
Dickson, John R.....	(Deceased)	1866
Dupuis, Thomas R	Kingston.....	1871
Fowler, Fife.....	Kingston.....	1866
Kennedy, Roderick.....	Bath	1866
Lavell, Michael	Kingston.....	1866
Maclean, Donald.....	Ann Arbor, Mich	1866
Mark, Robert	Montreal.....	1873
Neish, James.....	Linstead, Jamaica.....	1871
Oliver, Alfred S.....	Kingston.....	1871
Reeve, Richard A.	Toronto.....	1866
Saunders, Herbert J.....	Kingston	1871
Sullivan, Michael.	Kingston.....	1866
Yates, Horatius.....	(Deceased)	1871
Yates, Octavius	(Deceased)	1871

LICENTIATES OF R.C.P.S., K.

Abbott, Samuel.....	Belleville	1872
Alexander, James A.	(Deceased)	1869
Alway, Enoch	Smithville	1869
Bice, Mark	Hampton.	1869
Bingham, Hugh.....	Fenelon Falls.....	1867
Bingham, James.....	Warsaw.	1868
Booth, Donald B.....	Odessa.....	1868
Burgar, E.....	Welland	1868
Chaffey, Ellswood.	Lachine.....	1870
Chamberlane, Theodore F.....	Morrisburg.....	1878
Clapham, Edward.	Belleville.....	1861
Close, James.	Ohio, U.S.....	1873
Coleman, William F.....	St. John, N.B	1871
Corbett, Henry T.	Ottawa.	1868
Cornell, Charles	Farmersville	1872
Davidson, Myers.....	Florence	1871
Day, Barnabus W.	Kingston.....	1871
Dickson, John R.....	(Deceased)	1868
Dowsley, D. H.....	Clinton	1875

Name	Present Address.	Year of Graduation.
Dugdale, John J.	Montreal.	1867
Erly, Francis W. J.	(Deceased)	1868
File, Albert J.	Ameliasburg.	1869
Fraser, Allan H.	(Deceased)	1867
Graham, William J.	Bothwell	1873
Gunsolus, Kenneth.	—	1874
Hall, John D.	Brockville.	1878
Hendry, George	(Deceased)	1869
Herriman, Weston Leroy	Port Hope	1869
Higinbotham, A.	(Deceased)	1868
Horse, Edward H.	Chicago.	1871
Houston, William R.	Chatham.	1871
Hutchison, John	Meaford	1869
Johnstone, David	Kincardine	1868
Kidd, Edward	Wellington.	1871
Knight, John H.	Sombra	1880
Lavell, Charles H.	(Deceased)	1873
Lavell, William A.	—	1880
Maclean, Archibald	Ann Arbor, Mich.	1880
Mark, Robert	Montreal.	1867
McDowell, John	Shawville.	1880
Meadows, R. W.	H. M. Service.	1862
Meagher, Augustus	(Deceased)	1869
Munro, David	Lanark	1867
Murphy, H. J.	Chatham.	1867
Maclean, Donald	Ann Arbor, Mich.	1868
McLennan, Alexander S.	Chicago.	1873
Nesbitt, Edward	(Deceased)	1868
Newell, James	Springfield	1869
Noel, J. V.	Kansas.	1867
Oliver, J. K.	(Deceased)	1868
O'Sullivan, John	Peterborough.	1868
Patterson, James R.	Tiverton	1869
Price, Robinson B.	Bath.	1871
Purdy, Charles W.	Chicago.	1869
Rourke, Francis.	Port Lambton.	1867
Spear, Hugh	Leaskdale.	1868
Stewart, Alexander J.	Angus	1869
Thibodo, Robert	—	1868
Van Allen, John R.	Kansas City.	1870
Vanlack, Gilbert	(Deceased).	
Wafer, Francis W.	(Deceased)	1861
Young, David.	Lower Fort Garry, Man.	1877

§ ALUMNI

OF NOT LESS THAN TWO YEARS' STANDING.

Those marked with an Asterisk are Clergymen.

Name.	Date of First Registration.	Address.
Allan, Andrew.....	1844	Balderson's Corners.
*Andrew, Joseph.....	1879	Middleville.
Bain, William R.....	1858	Montreal.
*Ball, William S.....	1842	Proof Line.
*Barr, John.....	.....	(Deceased.)
Bamford, Frederick J.....	1876	Winnipeg.
Bawden, J. R.....	1855	Kingston.
Bethune, James, Q. C.....	1856	(Deceased.)
Bethune, Wm. S.....	1879	Wingham.
*Borthwick, H. J.....	1855	Mountain Clty, Man.
Brownell, James E....	1877 ....	.....
*Byers, Henry.....	1848	Kingston.
Calvin, H. A.....	1868	Garden Island.
*Camelon, David.....	1853 ..	Maple.
*Cameron, Hugh.....	1856	Summerstown.
*Cameron, J. J., M.A.....	1871	Pickering.
Campbell, John R.....	1879	Wingham.
Cargill, Henry.....	1856	(Deceased.)
*Carmichael, James, B.A....	1858 ...	Norwood.
*Carmichael, James.....	1854	Strange.
Cameron, A. H., B.A.....	1869	Waukopa, Man.
Chambers, John N.....	1875	Woodstock, O.
*Chambers, W. A.....	1871	Erzeroum, Turkey.
Clapp, David P.....	1873	Harriston, O.
Cook, William.....	1858	Quebec.
Crawford, Angus.....	1869 ....	.....
Dickson, Edwin H.....	1867	Fargo, Dakota.
*Doudiet, C. A.....	1866	Montreal.
Drummond, Robert J.....	1855	Perth.
Duff, John M.....	1872	Dunnville.
Duff, John.....	1850	Kingston.
Elmore, Minor M.....	1875	(Deceased.)

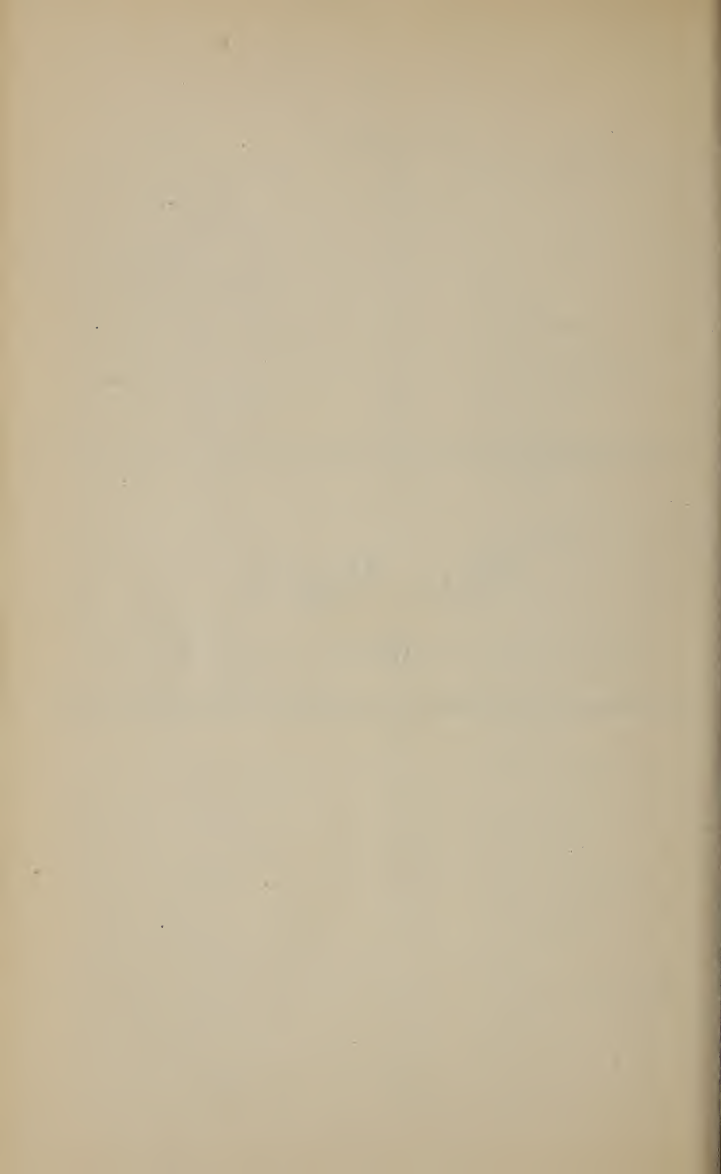
§ The Registrar will be much obliged for notices or additions or corrections to this List.

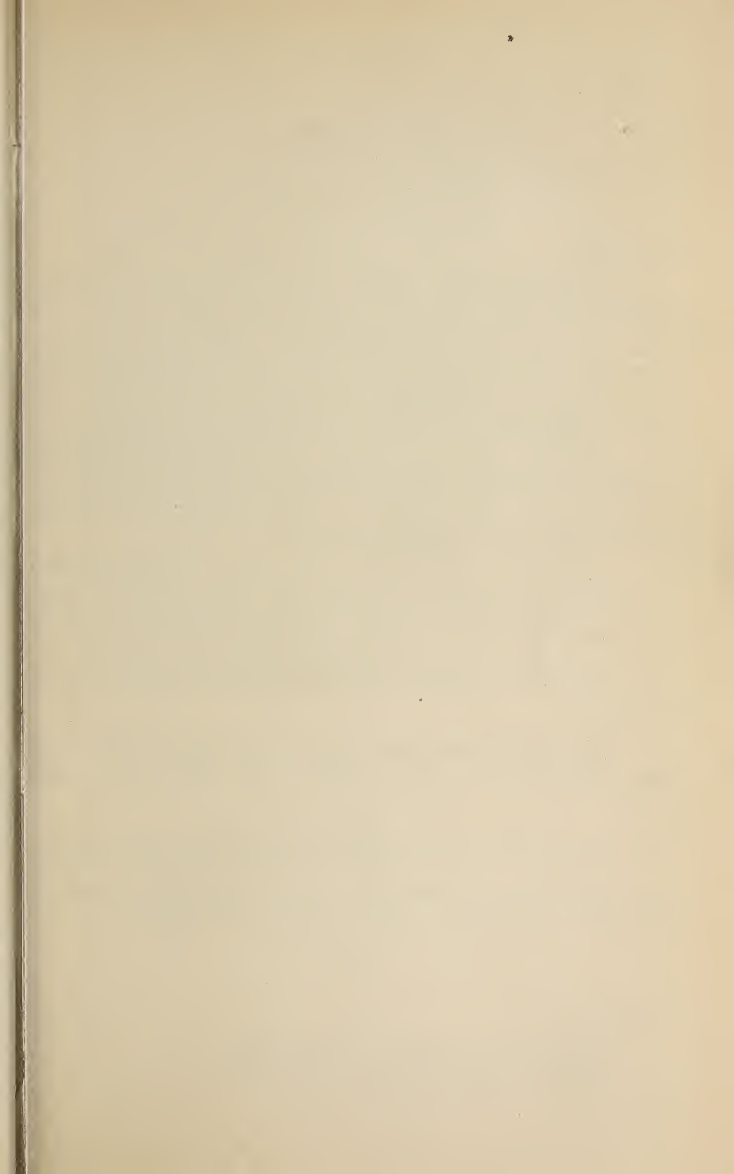
Name.	Date of First Registration.	Address.
Farnden, Hunter R.....	1842	
*Ferguson, John, B.A.	1858	Maple Valley, Man.
Flanigan, John.....	1858	Chicago.
Forrest, David.....	1879	
Fraser, Nutting S.....	1881	St. John's, Newfld.
Galbraith, Malcolm C.....	1853	Bowmanville.
*Goodwill, John.....	1858	Orwell Head, P. E. I.
*Gray, James M.....	1861	Stirling.
Hamilton, Clark.....	1848	Kingston.
Hamilton, John... ..	1844	Judge, Sault St. Marie.
Hamilton, Wm.	1858	
Hendry, Thomas.....	1868	California.
Hobart, S. W.....	1879	Kingston.
Hooper, John G.....	1879	Kingston.
Ireland, Alex. H.....	1866	Strathroy.
Ireland, James O.....	1850	Toronto.
Ireland, Wm.....	1850	Chatham, O.
Irvine, Richard W.....	1878	
Johnston, Wm.....	1878	
*Kellock, David.....	1878	Spencerville.
*Lamont, Hugh, D.D.....	1861	Hamden, Que.
Lane, Morgan.....	1863	Clayton, O.
Legere, Prosper L.....	1856	(Deceased.)
Malloy, William.....	1865	
Macdonald, H. J.....	1865	Winnipeg.
McArthur, Charles.....	1879	
McArthur, John M.....	1878	Chicago.
*McColl, Angus.....	1842	Chatham, O.
McDonald, William.....	.....	(Deceased.)
*McEachern, Charles.....	1873	Inverness, Scotland.
*McEachern, Duncan.....	1869	Dundee Centre, Q.
McGeachy, Wm., M.D.....	1861	Fingal, O.
*McGillivray, Alexander.....	1871	Williamstown.
McGregor, Alexander.....	1862	Williamstown.
McIntosh, Hugh.....	1876	
*McIntyre, C. E.....	1863	
McKenzie, John J.....	.....
*McKinnon, John.....	1842	(Deceased.)
McLaren, Archibald.....	1878	Springfield, Man.
McLean, Archibald B.....	1865	Smith's Falls.
McLean, Donald A.....	1877	Ann Arbor, Mich.
McLean, D. A.....	.....
McLean, John.....	1874	(Deceased.)

Name.	First	Date of Registration.	Address.
McMillan, George, B.A.....	1875	....	Princeton, P.E.I.
McNabb, Frank.....	1880	....	Pittsburg.
McNutt, George A.....	1878	....
*McPherson, Lachlan.....	1872	....	(Deceased.)
Moir, Robert.....	1878	....
Motherwell, James W.....	1873	....	Perth.
Muckleston, W. J.....	1864	....	Ottawa.
*Mullan, Elias.....	1861	....	Kilsyth, Ont.
*Mullan, J. B.....	1856	....	Fergus.
*Mullan, J. S.....	1854	....	Nashwaak, N B
Mulock, William R.....	1865	....	Winnipeg.
Ovens, Rufus K.....	1879	....	Wilton.
*Paul, James T.....	1842	....	(Deceased.)
Pollock, John R.....	1877	....	(Deceased)
*Porteous, George.....	1854	....	Toledo.
Pratt, Abraham A.....	1879	....
Renton, Thomas T.....	1879	....	Kingston.
Riddell, Alex. F.....	1867	....	Montreal.
Robertson, John.....		....	Bath.
Ross, Irvine.....	1866	....	Toronto.
Ross, Archibald.....	1872	....
*Ross, Donald.....	1853	....	Portland, Oregon.
Ross, K. J. Livingstone.....	1879	....	Portland, Oregon.
Roy, Henry.....	1880	....	Chisholm, P.E.I.
Smith, Frederick.....		....	(Deceased.)
Smith, James.....	1877	....	Toronto.
Smith, Robert L.....	1879	....	Appleton.
Smith, Thomas G., D.D.....	1847	....	Wansau, Wis.
*Snodgrass, John A.....	1868	....
*Strachan, Donald.....	1865	....	Rockwood.
Strange, O. S., M.D.....	1842	....	Kingston.
Stewart, Alexander S.....	1878	....	(Deceased.)
*Sym, F. Petry.....	1884	....	Melbourne, Q.
*Taft, J. N.....	1877	....	Haber, N.Y.
*Taylor, Hugh.....	1873	....	Pakenham.
*Thom, Leslie W.....		....	Arthur, O.
Thomson, Andrew W.....	1879	....	Winnipeg.
Walkem, Hugh.....	1875	....	Spence's Bdg., B.C.
*Wallace, Robert.....	1842	....	Toronto.
Ward, David.....	1850	....	Almonte.
Welch, Frederick.....	1867	....	Kingston.
*Wilkins, T. W., B.A.....	1863	....	Trenton.
Wright, Henry A.....	1879	....	Toronto.

Pass Papers,

ARTS.





Junior Latin.

SECOND PAPER.

I.

Translate :

Jam et in sinistro cornu Romano, ubi sociorum equites adversus Numidas steterant, consertum proelium erat, segne primo et a Punica coeptum fraude. Quingenti ferme Numidae, praeter consueta arma telaque gladios occultos sub lorice habentes, specie transfugarum cum ab suis, parmas post terga habentes, adequitassent, repente ex equis desiliunt, parmisque et jaculis ante pedes hostium projectis in mediam aciem accepti ductique ad ultimos considere ab tergo jubentur : ac dum proelium ab omni parte conseritur, quieti manserunt. Postquam omnium animos oculosque occupaverat certamen, tum arreptis scutis, quae passim inter acervos caesorum corporum strata erant, aversam adoriuntur Romanam aciem, tergaque ferientes ac poplites caedentes stragem ingentem ac majorem aliquanto pavorem ac tumultum fecerunt.

Livy, B. XXII.

1. Parse *consertum erat*, *consueta*, *adequitassent*, *jubentur*, *manserunt*, *arreptis*, *caesorum*, *adoriuntur*.

2. Explain the syntax of *loricis*, *specie*, *projectis*, *dum*, *aliquanto*.

3. Distinguish between *jam* and *nunc*—*arma* and *tela*—*parma* and *scutum*—*cædo* and *cado*—*pavor* and *timor*.

4. Mention the chief battles of the war and their dates.

5. Describe the characters of the generals opposed to Hannibal at different periods during the war.

II.

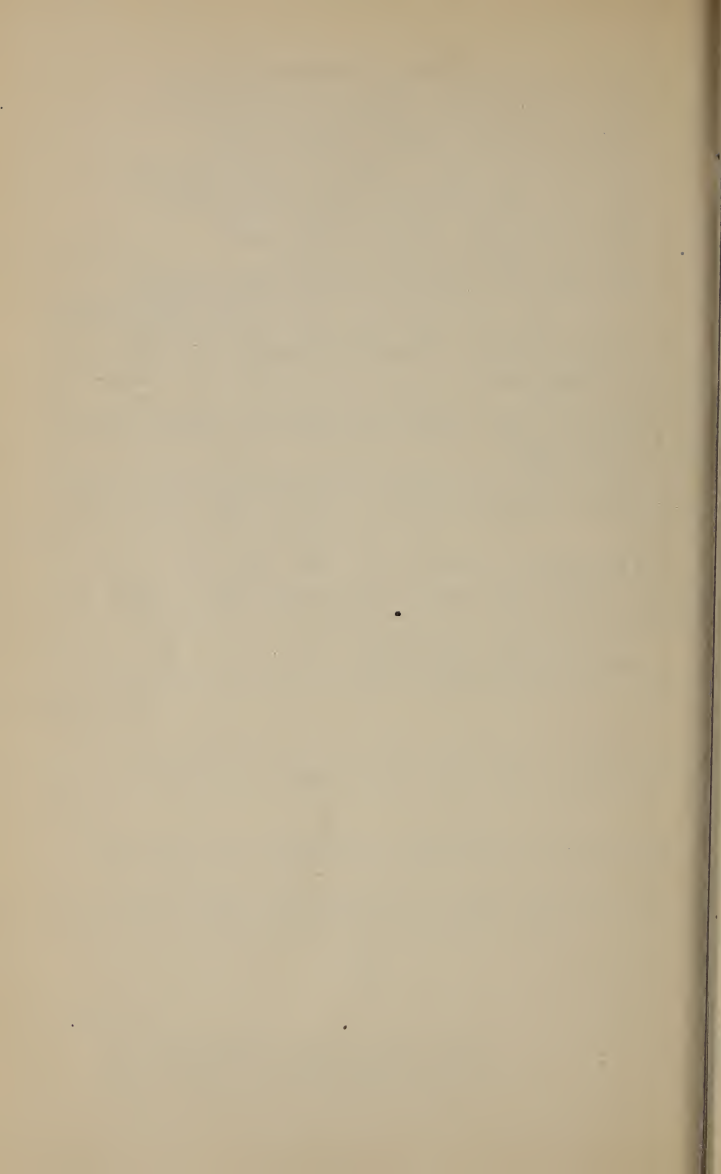
Translate :

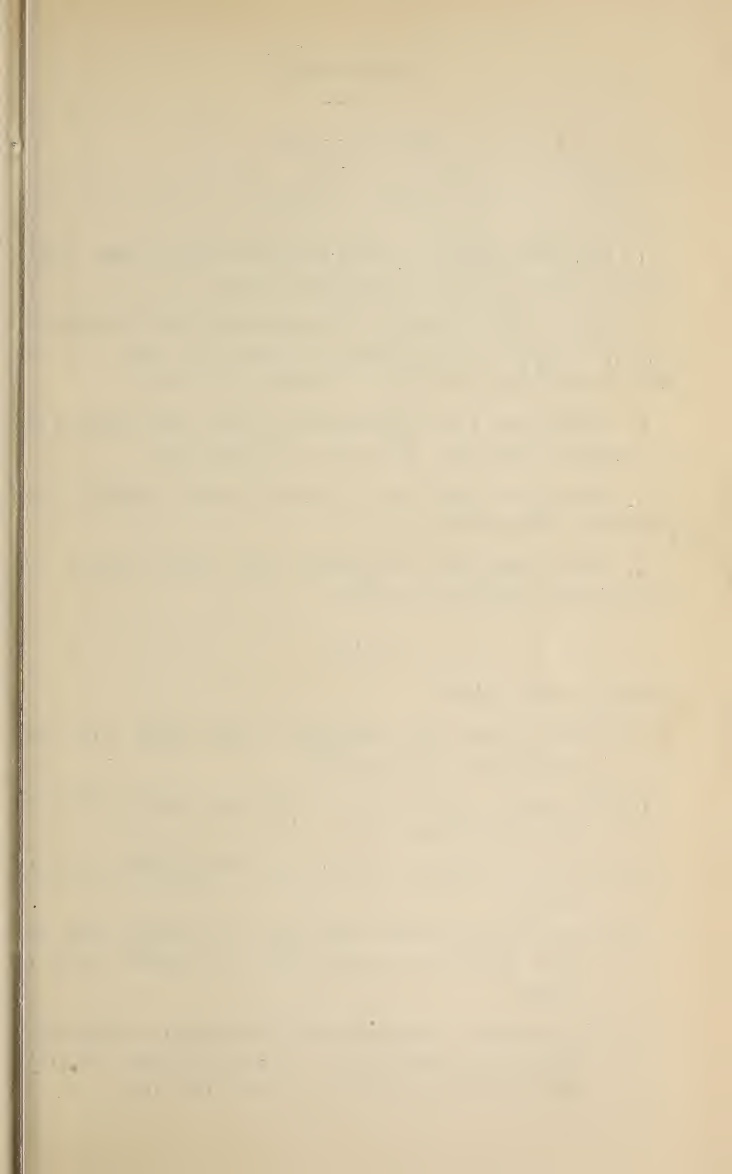
Interea praemissi equites ex urbe Latina,
Cetera dum legio campis instructa moratur,
Ibant, et Turno regis responsa ferebant,

Tercentum, scutati omnes, Volscente magistro.
 Jamque propinquabant castris, murosque subibant,
 Quum procul hos laevo flectentes limite cernunt ;
 Et galea Euryalum sublustri noctis in umbra
 Prodidit immemorem, radiisque adversa refulsit.
 Haud temere est visum, conclamat ab agmine Volsceus :
 State, viri ; quae causa viae ? quive estis in armis ?
 Quove tenetis iter ? Nihil illi tendere contra ;
 Sed celerare fugam in silvas, et fidere nocti.
 Objiciunt equites sese ad divortia nota
 Hinc atque hinc, omnemque abitum custode coronant.

Virgil, *Æneid*, B. IX.

1. Parse *moratur*, *subibant*, *ferebant*, *flectentes*, *cernunt*, *refulsit*, *fidere*.
2. Explain the syntax of *magistro*, *radiis*, *armis*, *illi*, *silvas*, *nocti*.
3. Write notes on *ex urbe Latina*, *hos*, *immemorem*, *tendere*.
4. Distinguish between *ab* and *ex*—*cetera* and *reliqua*—*procul* and *longe*—*agmen* and *acies*—*abitus* and *aditus*.
5. Scan the first three lines.





Junior Latin.

SECOND PAPER.

1.

1. Give the principal parts of *cado*, *caedo*, *tango*, *tego*, *vinco*, *vincio*, *vivo*, *meto*, *metior*, *orior*.

2. What verbs take (a) the accusative and infinitive for the English noun-clause introduced by *that* ; (b) *ut* with the subjunctive for the English infinitive ?

3. Construct Latin sentences to show the syntax of (a) verbs of *fearing* ; (b) verbs of *hindering*.

4. Give the forms used in Latin for the *negative imperative*. Illustrate.

5. Give examples of *historic inf.*, *final clause*, *ut consecutive*, *indirect question*.

II.

Translate into Latin :

(a) I had long been waiting to see what was the meaning of that crowd.

(b) He asked whether his shield was safe and they answered "yes."

(c) Do not say that we have lost this golden opportunity.

(d) I believe that when the day was already won he was killed by one of his own soldiers with a spear.

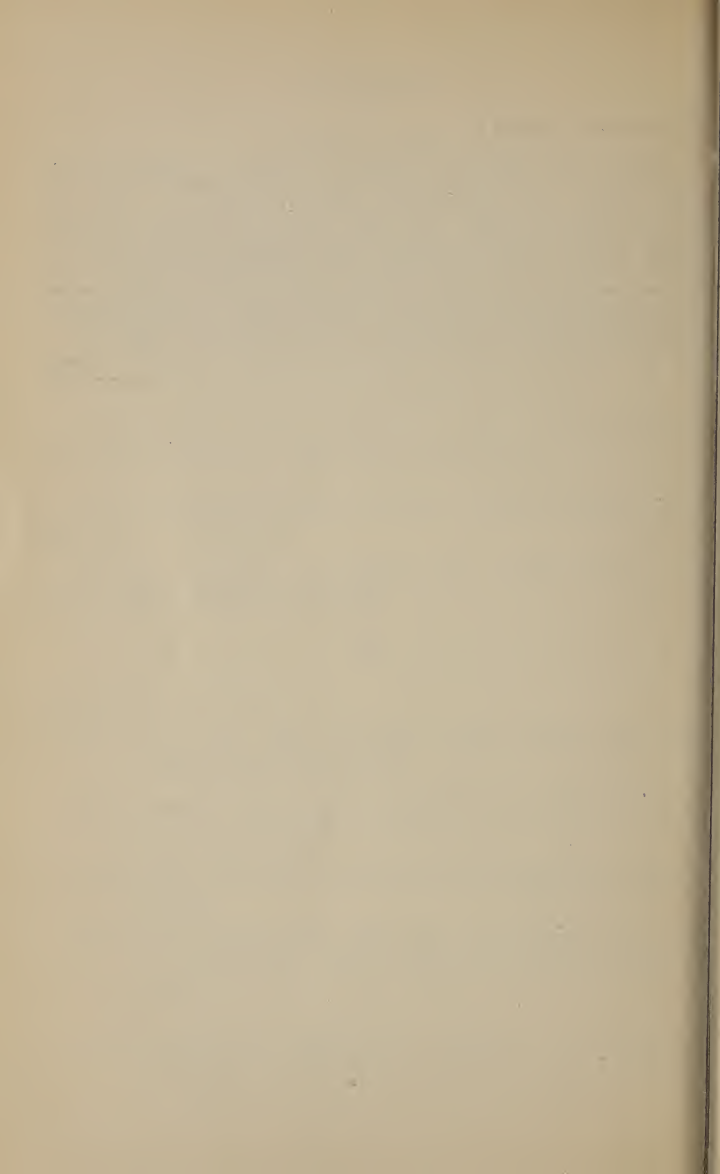
(e) He earnestly implored all students to remember that they were bound to work for the country in which they had been bred and born.

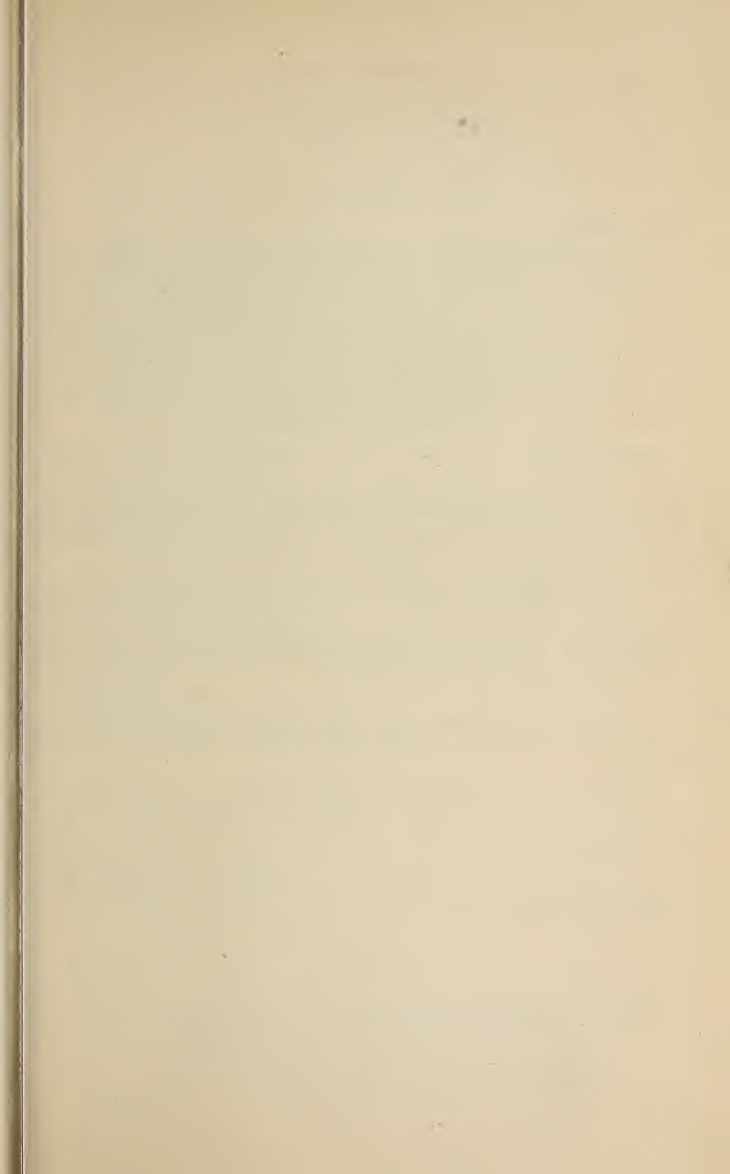
III.

Translate at sight :

Legati eo ab Apollonia venerunt nuntiantes in obsidione sese, quod deficere ab Romanis nollent, esse, neque sustinere ultra vim Macedonum posse nisi præsidium mittatur Romanum. Facturum se quæ vellent pollicitus, duo millia delectorum militum navibus longis mittit ad ostium fluminis cum præfecto sociûm Q. Nævio Crista, viro impigro et perito militiæ. Is expositis in terram militibus navibusque Oricum retro, unde venerat, ad cæteram classem remissis milites procul a flumine per viam minime ab regiis obsessam duxit, et nocte ita ut nemo hostium sentiret urbem est ingressus.

Livy.





Senior Latin.

FIRST PAPER.

I.

Translate :

(a) Sit hoc inhumanitatis : stultitiam incredibilem videte. Quid habes quod mihi opponas, homo diserte, ut Mustelae et Tironi esse videris ? qui quum hoc ipso tempore stent cum gladiis in conspectu senatus, ego quoque te disertum putabo, si ostenderis quo modo sis eos inter sicarios defensurus. Sed quid opponas tandem, si negem me unquam ad te istas litteras misisse ? quo me teste convincas ? An chirographo ? in quo habes scientiam quaestuosam. Qui possis ? Sunt enim librarii manu. Iam invideo magistro tuo, qui te tanta mercede, quantam iam proferam, nihil sapere doceat.

(b) Cn Pompeii liberi tum primum patriam repetebant. Esto : fuerit haec partium causa communis. Repetebant praeterea deos patrios, aras, focos, larem suum familiarem, in quae tu invaseras. Haec quum peterent armis ii, quorum erant legibus, etsi in rebus iniquissimis quid potest esse aequi ? tamen quem erat aequissimum contra Cn. Pompeii liberos pugnare, quem ? Te, sectorem.

(c) Ubi est septiens miliens, quod est in tabulis, quae sunt ad Opis' funestae illius quidem pecuniae, sed tamen, quae nos si iis, quorum erat, non redderetur, a tributis posset vindicare. Tu autem quadringentiens sestertium, quod Idibus Martiis debuisti, quonam modo ante Kalendas Apriles debere desisti ?

Cicero, Philippic II.

1. Parse *videris, stent, ostenderis, esto, invaseras, desisti.*

2. Explain the syntax of *inhumanitatis, (mihi) opponas, sis, negem, quo, peterent, quorum, aequi, quem, opis, pecuniae, posset.*

3. State what you know of the functions of the Roman Senate.

II.

Translate :

(a) namque inflicta vadis dorso dum pendet iniquo, anceps sustentata diu, fluctusque fatigat, solvitur atque viros mediis exponit in undis fragmina remorum quos et fluitantia transtra impediunt, retrahitque pedem simul unda relabens.

(b) *istic nunc, metuende, jace. non te optima mater
condet humi patrioque onerabit membra sepulchro :
alitibus linquere feris aut gurgite mersum
unda feret piscesque inpasti volnera lambent.*

(c) *quamquam o, si solitae quicquam virtutis adesset !
ille mihi ante alios fortunatusque laborum
egregiusque animi, qui, nequid tale videret,
procubuit moriens et humum simul ore momordit.
sin et opes nobis et adhuc intacta juvenus
auxilioque urbes Italae populi que supersunt,
sin et Trojanis cum multo gloria venit
sanguine (sunt illis sua funera parque per omnes
tempestas) : cur indecores in limine primo
deficimus ? cur ante tubam tremor occupat artus ?
multa dies variusque labor mutabilis aevi
rettulit in melius, multos alterna revisens
lusit et in solido rursus Fortuna locavit.*

Virgil, Aeneid.

1. Parse *inflicta, pendet, solvitur, relabens, jace, con-*
let, linquere, mersum.

2. Explain the syntax of *dorso, gurgite, adesset,*
laborum, auxilio.

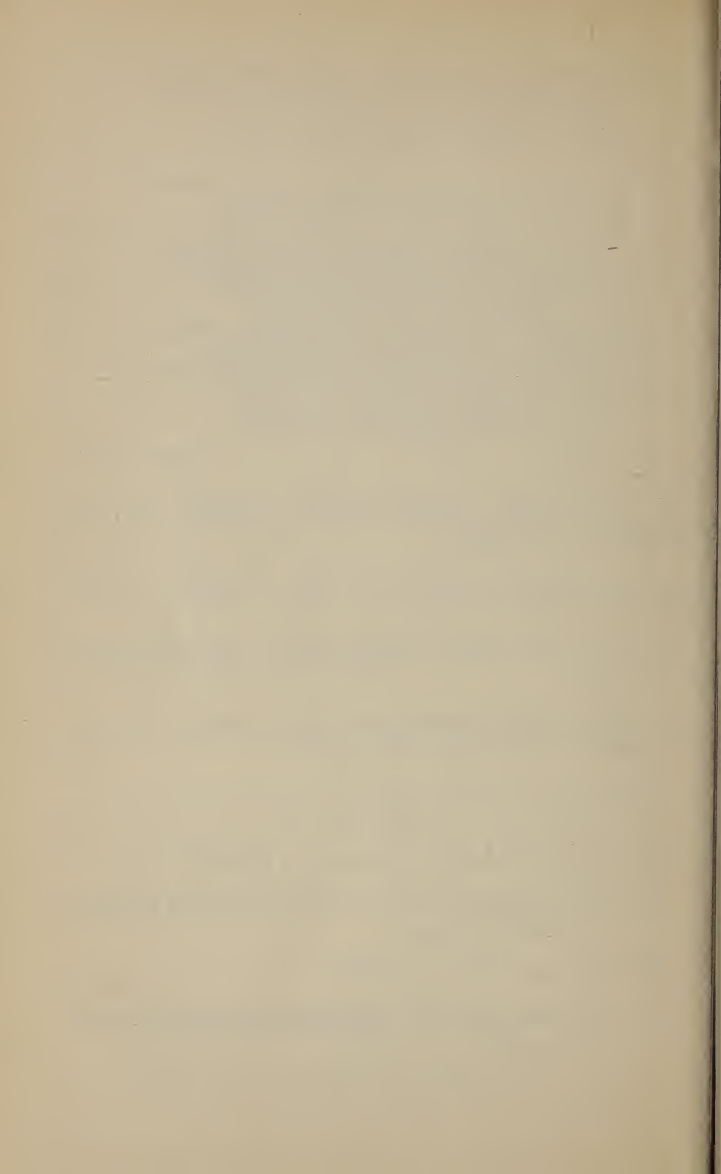
3. Turn into oratio obliqua from *sin et Trojanis*
o deficimus.

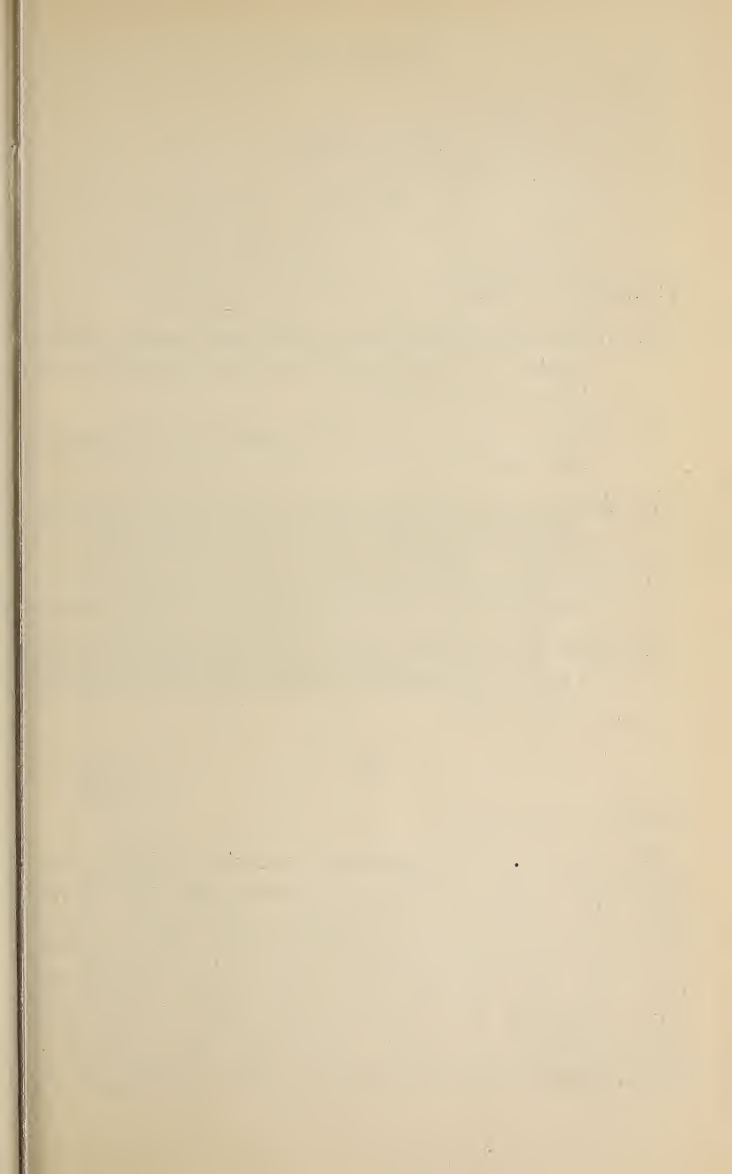
4. Define and give examples of *hendiadys, metonymy,*
prolepsis, anachronism, archaism.

III.

Construct short Latin sentences to illustrate :

- (a) The common forms of the conditional sentence
in oratio obliqua.
- (b) The use of the participle.
- (c) The main rules for expressing relations of place
and time.





Senior Latin.

SECOND PAPER.

1.

Translate into Latin :

- (a) When the soldiers had reached the summit of the mountain, they congratulated the general upon the conquest of Italy.
- (b) If he had made the same mistake as you, he would long ago have repented of it.
- (c) After saluting the general of the enemy, he rode rapidly away without waiting for any one.
- (d) He told us that he ought not to wait till we ascertained whether they intended to fight or not.
- (e) Do you think that if any one had suggested such a course at Rome, he would have been opposed by any one ?

II.

Translate into Latin :

One day the king's shepherds were in the fields with their flocks, when a mighty storm arose and with a loud crash like thunder the earth yawned (hio) and a huge chasm (hiatus) opened beneath their feet. The rest fled in dismay, but Gyges boldly descended into the chasm, where he saw a brazen horse with doors in its side. And when the doors were opened, he perceived the body of a dead man with a gold ring upon his finger. This ring Gyges immediately drew off and, putting it on

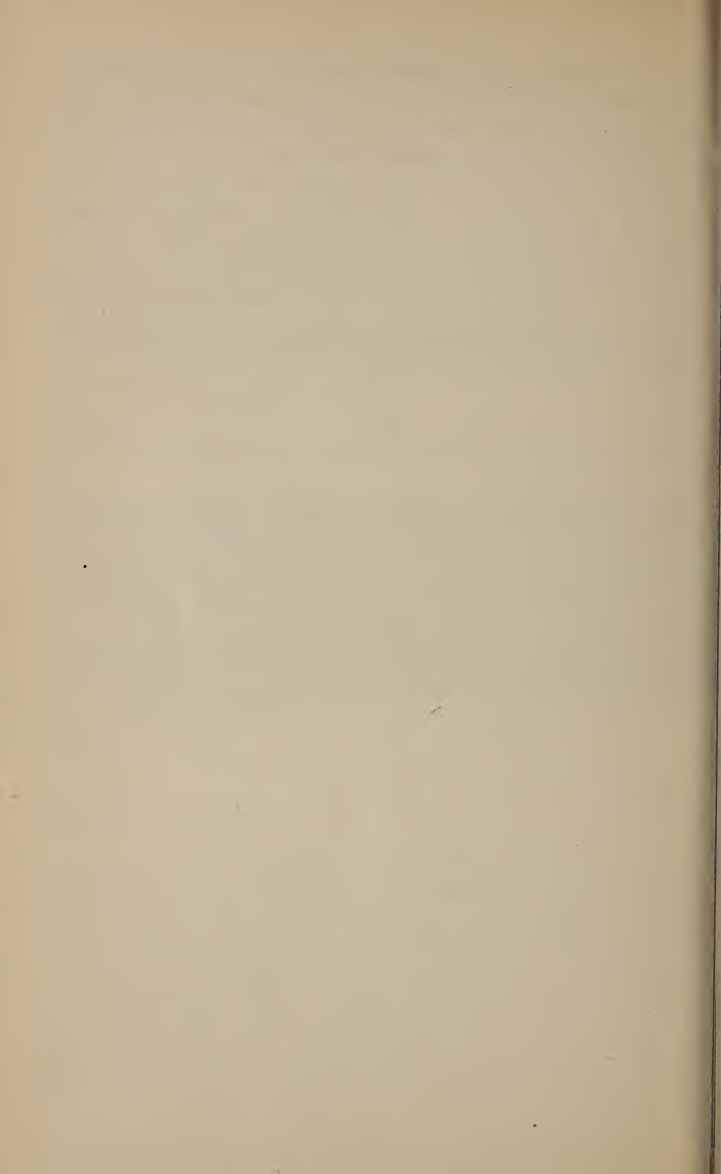
himself, reāscended to the light. And not long after he happened to be present at a shepherds' gathering and the ring was upon his hand. And happening to turn the bezel (pala) of the ring to the palm of his hand, he instantly became invisible, though able himself to see all that was going on. But when he turned the ring back to its place, he instantly became visible again. Struck with the wonderful virtue (opportunitas) of the ring he immediately repaired to the palace, and easily gaining admission by its means to the royal bed-chamber, he killed the king and took possession of the throne.

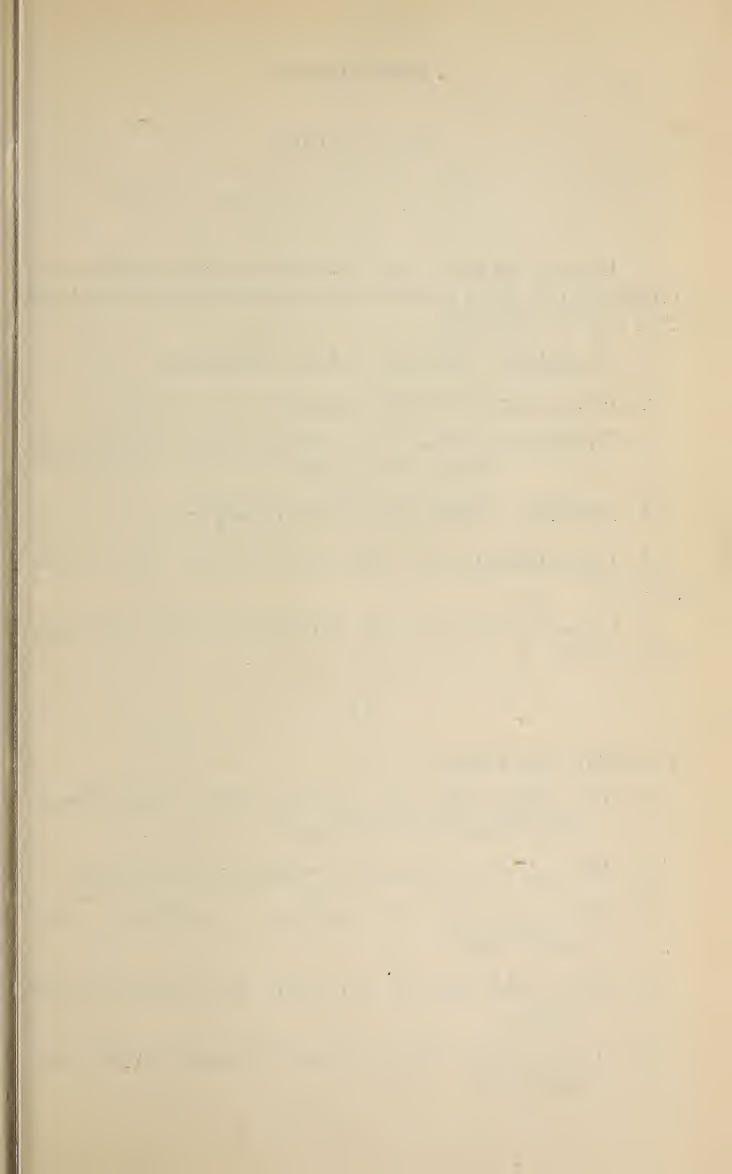
III.

Translate at sight :

Quid est enim, per deos, optabilius sapientia? quid praestantius? quid homini melius? quid homine dignius? Hanc igitur qui expetunt philosophi nominantur: nec quidquam aliud est philosophia, si interpretari velis, praeter studium sapientiae. Sapientia autem est (ut a veteribus philosophis definitum est) rerum divinarum et humanarum caussarumque quibus hae res continentur scientia: cujus studium qui vituperat haud sane intelligo quidnam sit quod laudandum putet. Nam si oblectatio quaeritur animi requiesque curarum, quae conferri cum eorum studiis potest qui semper aliquid anquirunt quod spectet et valeat ad bene beateque vivendum?

Cicero, De Officiis.





Junior Greek.

SECOND PAPER.

I.

1. Give rules for (a) the use of the article where it is omitted in English ; (b) the omission of the article where it is used in English.

Translate : *Wisdom is better than gold.*

2. Give rules for *oratio obliqua*.

Translate : *He said he thought that wisdom was better than gold.*

3. Illustrate briefly the syntax of *αὐτός*.

4. Give examples of the more common uses of the genitive.

5. Construct short Greek sentences to show the main uses of *κατά*.

II.

Translate into Greek :

(a) He thinks that you will be able to take away their ships from the enemy.

(b) We ask you to use your waggons as a rampart.

(c) Did he say that he would go to Athens on the fourth day ?

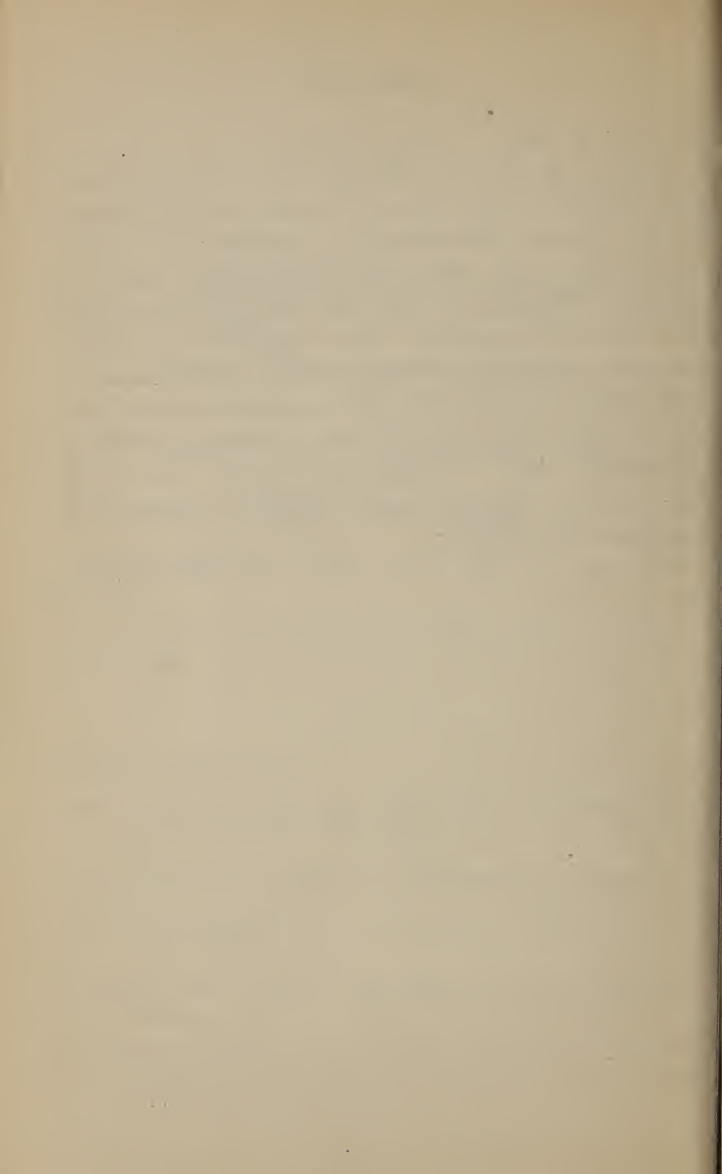
(d) They said that all our army was taken by the enemy.

(e) Do you think that he was honoured on his own account ?

Translate at sight :

Ἀπώλοντο δὲ τῶν μὲν Ἀθηναίων νῆες πέντε καὶ εἴκοσιν αὐτοῖς ἀνδράσιν, ἐκτὸς ὀλίγων τῶν πρὸς τὴν γῆν προσενεχθέντων· τῶν δὲ Πελοποννησίων Λακωνικαὶ μὲν ἑννέα, πασῶν οὐσῶν δέκα, τῶν δ' ἄλλων ξυρμάχων πλείους ἢ ἑξήκοντα. Ἔδοξε δὲ καὶ τοῖς τῶν Ἀθηναίων στρατηγοῖς, ἑπτὰ μὲν καὶ τετταράκοντα ναυσὶ Θηραμένην τε καὶ Θρασύβουλον, τριηράρχους ὄντας, καὶ τῶν ταξιάρχων τινὰς πλεῖν ἐπὶ τὰς καταδεδυκυίας ναῦς καὶ τοὺς ἐπ' αὐτῶν ἀνθρώπους, ταῖς δ' ἄλλαις ἐπὶ τὰς μετ' Ἐτεονίκου τῇ Μυτιλήνῃ ἐφορμούσας. ταῦτα δὲ βουλομένους ποιεῖν ἄνεμος καὶ χειμὼν αὐτοὺς διεκώλυσε μέγας γενόμενος. τρόπαιον δὲ πτήσαντες αὐτοῦ ἠϋλίζοντο.

Hellenica, B. I.



Junior Greek.

SECOND PAPER.

I.

Translate :

Ὅτε δ' αὖτις ἡ μάχη ἐγένετο, Τισσαφέρνης ἐν Σάρδεσιν ἔτυχεν ὦν· ὥστε ἡτιῶντο οἱ Πέρσαι προδεδόσθαι ὑπ' αὐτοῦ. γνούς δὲ καὶ αὐτὸς ὁ Περσῶν βασιλεὺς Τισσαφέρνην αἴτιον εἶναι τοῦ κακῶς φέρεσθαι τὰ αὐτοῦ, Τιθραύστην καταπέμψας ἀποτέμνει αὐτοῦ τὴν κεφαλὴν. τοῦτο δὲ ποιήσας ὁ Τιθραύστης πέμπει πρὸς τὸν Ἀγησίλαον πρέσβεις λέγοντας· Ὁ Ἀγησίλαε, ὁ μὲν αἴτιος τῶν πραγμάτων καὶ ὑμῖν καὶ ἡμῖν ἔχει τὴν δίκην· βασιλεὺς δὲ ἀξιοῖ σὲ μὲν ἀποπλεῖν οἴκαδε, τὰς δ' ἐν τῇ Ἀσίᾳ πόλεις αὐτονόμους οὔσας τὸν ἀρχαῖον δασμὸν αὐτῷ ἀποφέρειν.

Xenophon, Hellenics, B. III.

1. Parse ἐγένετο, ἔτυχεν, ἡτιῶντο, προδεδόσθαι, γνούς, ἀποτέμνει, ἀξιοῖ.

2. Explain the syntax of Σάρδεσιν, ὦν, τοῦ φέρεσθαι. Why is the subject of προδεδόσθαι omitted?

3. ἔχει τὴν δίκην. What is the equivalent Latin phrase? What verb might be substituted for ἔχει?

4. Sketch the operations of Agesilaos in Asia.

II.

Translate :

διηγῆσομαι δὲ καὶ τὴν μάχην, καὶ πῶς ἐγένετο οἷα οὐκ ἄλλη τῶν γ' ἐφ' ἡμῶν. συνήεσαν μὲν γὰρ εἰς τὸ κατὰ Κορώνειαν πεδῖον οἱ μὲν σὺν Ἀγησιλάῳ ἀπὸ τοῦ Κηφισοῦ, οἱ δὲ

σὺν Θηβαίοις ἀπὸ Ἑλικῶνος. εἶχε δ' Ἀγησίλαος μὲν δεξιὸν τοῦ μετ' αὐτοῦ, Ὀρχομένιοι δ' αὐτῷ ἔσχατοι ἦσαν τοῦ εὐωνύμου. οἱ δ' αὖ Θηβαῖοι αὐτοὶ μὲν δεξιοὶ ἦσαν. Ἀργεῖοι δ' αὐτοῖς τὸ ἐβώνυμον εἶχον. συνιόντων δὲ τέως μὲν σιγῇ πολλῇ ἀπ' ἀμφοτέρων ἦν· ἡνίκα δ' ἀπεῖχον ἀλλήλων ὅσον στάδιον, ἀλαλάξαντες οἱ Θηβαῖοι δρόμῳ ὁμόσε ἐφέροντο. ὥς δὲ τριῶν ἔτι πλέθρων ἐν μέσῳ ὄντων ἀντεξέδραμον ἀπὸ τῆς Ἀγησιλάου φάλαγγος ὦν Ἡριππίδας ἐξενάγει καὶ σὺν αὐτοῖς Ἰωνες καὶ Αἰολεῖς καὶ Ἑλλησπόντιοι, καὶ πάντες οὗτοι τῶν συνεχδραμόντων τε ἐγένοντο καὶ εἰς δόρυ ἀφικόμενοι ἔτρεψαν τὸ καθ' αὐτοῦς. Ἀργεῖοι μέντοι οὐκ ἐδέξαντο τοὺς περὶ Ἀγησίλαον, ἀλλ' ἐφυγον ἐπὶ τὸν Ἑλικῶνα.

Xenophon, Hellenics, B. IV.

1. Parse διηγήσομαι, συνήεσαν, ἐξενάγει, συνεχδραμόντων, ἔτρεψαν.
2. Explain the syntax of συνιόντων, στάδιον, πλέθρων, ὦν.
3. Distinguish ἐφ' ἡμῶν from ἐφ' ἡμῖν.
4. Mention the movements and the issue of the battle.

III.

Translate :

ME. ποῖ δῆτα φεύγω ; τίνα πόλιν ; τίνα ξένων ;

KP. ὅπου χθονὸς τῆσδ' ἐκποδὼν μάλιστ' ἔσει.

ME. οὐκοῦν σὲ φράζειν εἰκὸς, ἐκπονέειν δ' ἐμέ.

KP. Δελφοὺς περάσας

ME. ποῖ με χρὴ, πάτερ, μολεῖν ;

KP. Αἰτωλίῳ ἐς γῆν. ME. ἐκ δὲ τῆσδε ποῖ περῶ ;

KP. Θεσπρωτὸν οὐδας. ME. σεμνὰ Δωδώνης βάθρα ;

KP. ἔγνως. ME. τί δὴ τόδ' ἔρυμά μοι γενήσεται ;

KP. πόμπιμος ὁ δαίμων. ME. χρημάτων δὲ τίς πόρος ;

KP. ἐγὼ πορεύσω χρυσόν.

ME. εἰ λέγεις, πάτερ.

χώρει νυν· ὡς σὴν πρὸς κασιγνήτην μολῶν,

ἧς πρῶτα μαστὸν εἴλχυσ', Ἰοκάστην λέγω,

μητρὸς στερηθεὶς ὀρφανός τ' ἀποζυγεὶς,

προσηγορήσων εἶμι καὶ σώσω βίον.

ἀλλ' εἶα, χώρει· μὴ τὸ σὸν κωλύετω.

Euripides, *Phœnissæ*.

1. Parse *φεύγω*, *ἔσει*, *περάσας*, *μολεῖν*, *περῶ*, *ἔγνω*, *ἀποζυγεὶς*, *κωλύετω*.

2. Explain the syntax of *πόλιν*, *ξένων*, *μητρὸς*, *ὀρφανός*, *τὸ σόν*.

3. Write notes on *οὐκοῦν*, *Δελφούς*, *Δωδώνης*, *ὁ δαίμων*, *νυν*.

4. Sketch the plot of the *Phœnissæ*.

Senior Greek.

FIRST PAPER.

I.

Translate :

(a) ἔρρωτό τε πᾶς καὶ ἰδιώτης καὶ πόλις εἴ τι δύναιτο καὶ λόγῳ καὶ ἔργῳ ξυνεπιλαμβάνειν αὐτοῖς· ἐν τούτῳ τε κεκωλῦσθαι ἐδόκει ἐκάστῳ τὰ πράγματα ὥ μὴ τις αὐτὸς παρέσται. οὕτως ἐν ὀργῇ εἶχον οἱ πλείους τοὺς Ἀθηναίους, οἱ μὲν τῆς ἀρχῆς ἀπολυθῆναι βουλόμενοι, οἱ δὲ μὴ ἀρχθῶσι φοβούμενοι.

(b) θεῶν δὲ φόβος ἢ ἀνθρώπων νόμος οὐδεὶς ἀπεῖργε, τὸ μὲν κρίνοντες ἐν ὁμοίῳ καὶ σέβειν καὶ μὴ ἐκ τοῦ πάντας ὁρᾶν ἐν ἴσῳ ἀπολλυμένους, τῶν δὲ ἁμαρτημάτων οὐδεὶς ἐλπίζων μέχρι τοῦ δίκην γενέσθαι βίους ἂν τὴν τιμωρίαν ἀντιδοῦναι, πολὺ δὲ μείζω τὴν ἤδη κατεφημισμένην σφῶν ἐπικρεμασθῆναι, ἣν πρὶν ἐμπεσεῖν εἰκὸς εἶναι τοῦ βίου τι ἀπολαῦσαι.

(c) Τοσαῦτα εἰπόντων Πλαταιῶν Ἀρχίδαμος ὑπολαβὼν εἶπε· „Δίκαια λέγετε, ὦ ἄνδρες Πλαταιῆς, ἣν ποιῆτε ὁμοῖα τοῖς λόγοις. καθάπερ γὰρ Πausanίας ὑμῖν παρέδωκεν, αὐτοὶ τε αὐτονομεῖσθε καὶ τοὺς ἄλλους ξυνελευθεροῦτε ὅσοι μετασχόντες τῶν τότε κινδύνων ὑμῖν τε ξυνώμοσαν καὶ εἰσὶ νῦν ὑπ' Ἀθηναίοις, παρασκευὴ τε τοσῆδε καὶ πόλεμος γερ-
ένηται αὐτῶν ἕνεκα καὶ τῶν ἄλλων ἐλευθερώσεως. ἥς μάλιστα μὲν μετασχόντες καὶ αὐτοὶ ἐμμείνατε τοῖς ὅροις. εἰ δὲ μὴ, ἅπερ καὶ τὸ πρότερον ἤδη προυκαλεσάμεθα, ἡσυχίαν ἄγετε νεμόμενοι τὰ ὑμέτερα αὐτῶν, καὶ ἔστε μηδὲ μεθ' ἐτέρων, δέχεσθε δὲ ἀμφοτέρους φίλους, ἐπὶ πολέμῳ δὲ μηδ' ἐτέρους. καὶ τὰδε ἡμῖν ἀρκέσει.

Thucydides, B. II.

1. Parse ἔρρωτο, βιούς, μείζω, κατεψηφισμένην, ἐπικρεμασθῆναι, εἶπε, συνώμοσαν.

2. Explain the syntax of δύναιτο, ἀρχῆς, ἀρχθῶσι, γενέσθαι, ἐμπεσεῖν, ποιῆτε, ἧς, ὄρκοις.

3. Ὑπὸ...ἀντιδοῦναι. Give the finite form.

4. Draw a rough map of ancient Greece, showing the position of *Athens*, *Sparta*, *Thebes*, *Delphi*, *Naupactus*.

III.

Translate :

(a) HA. ἦ ταῦτα δὴ με καὶ βεβούλευνται ποιεῖν ;

XP. μάλισθ'· ὅταν περ οἴκαδ' Αἰγισθος μὲν ᾔλῃ.

HA. ἀλλ' ἐξίκοιτο τοῦδ' ἔτι οὐνεκ' ἐν τάχει.

XP. τί, ὦ τάλαινα, τὸνδ' ἐπηράσω λόγον ;

HA. ἐλθεῖν ἐκεῖνον, εἴ τι τῶνδε δρᾶν νοεῖ.

XP. ὅπως πάθῃς τί χρῆμα ; ποῦ ποτ' εἴ φρενῶν ;

HA. ὅπως ἀφ' ὕμῶν ὡς προσώτατ' ἐκφύγω.

XP. βίου δὲ τοῦ παρόντος οὐ μείαν ἔχεις ;

HA. καλὸς γὰρ οὐμὸς βίος ὥστε θαυμάσαι.

XP. ἀλλ' ἦν ἄν, εἰ σύ γ' εὖ φρονεῖν ἠπίστασο.

HA. μή μ' ἐκδίδασκε τοῖς φίλοις εἶναι κακόν.

(b) στάντες δ' ὅθ' αὐτοὺς οἱ τεταγμένοι βραβῆς

κλήρους ἔπλησαν καὶ κατέστησαν δίφρους,

χαλκῆς ὑπαὶ σάλπιγγος ἤξαν· οἱ δ' ἄμα

ἵπποις ὁμοκλήσαντες ἡνίας χεροῖν

ἔσεισαν· ἐν δὲ πᾶς ἐμεστώθη δρόμος

κτύπου χροτητῶν ἁρμάτων· κόνις δ' ἄνω

φορεῖθ'· ὁμοῦ δὲ πάντες ἀμμεμγμένοι

φείδοντο κέντρων οὐδὲν ὡς ὑπερβάλοι

χνόας τις αὐτῶν καὶ φρυάγμαθ' ἵππων.

1. Parse ἐπηράσω, ἐλθεῖν, ἠπίστασο, στάντες, ἔπηλαν κατέστησαν, ἤξαν, ἔσεισαν.

2. Explain the syntax of μόλῃ, ἐξίχοιτο, τόνδε, πάθῃς, φρενῶν, ἦν, αὐτούς, χεροῖν, κτύπου.

3. Μὴ μ' ἐκδίδασκε. Give the other form.

4. Translate with short notes on the syntax or the allusions:

(a) οὐ γάρ σε μὴ γήρῃ τε καὶ χρόνῳ μακρῷ γνῶσι.

(b) οὐδ' ἐθέλω προλιπεῖν τόδε, μὴ οὐ τὸν ἐμὸν στενάχειν πατέρ' ἄθλιον.

(c) ἀλλ' ἐμέ γ' ἃ στονόεσσ' ἄραρεν φρένας,
ἃ ὦ Ιτυν, αἰὲν ὦ Ιτυν ὀλοφύρεται,
ὄρνις ἀτυζομένα, Διὸς ἀγγελος.
ἰὼ παντλάμων Νιόβα, σὲ δ' ἔγωγε νέμω θεόν,
ἄτ' ἐν τάφῳ πετραίῳ
αἰαῖ δακρύεις.

III.

Construct short Greek sentences to illustrate:

(a) The common forms of the conditional sentence.

(b) The rules for oratio obliqua.

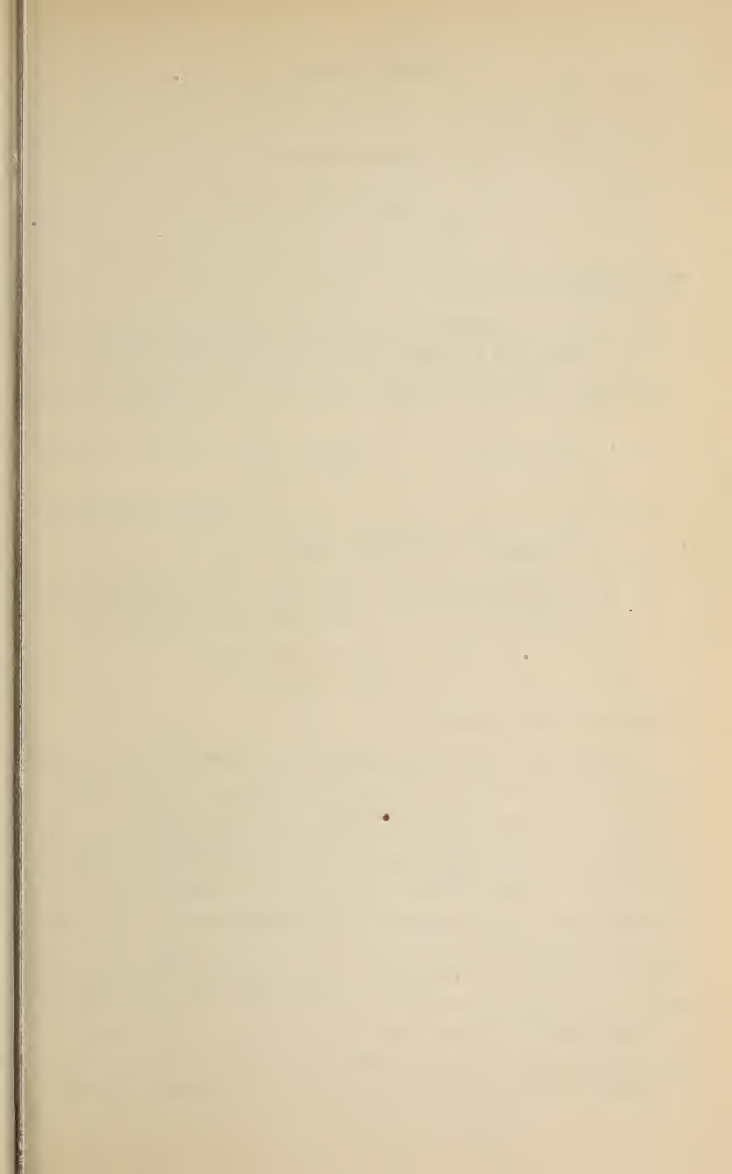
(c) The use of the infinitive.

1. The first part of the paper discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the transparency and accountability of any organization. The author argues that without reliable data, it is impossible to make informed decisions or identify areas for improvement.

2. In the second section, the author explores various methods for collecting and analyzing data. This includes both qualitative and quantitative approaches, as well as the use of modern technology like data mining and artificial intelligence. The text highlights the challenges of data collection, such as ensuring data quality and privacy, and offers practical solutions to these problems.

3. The third part of the paper focuses on the application of data analysis in different industries. It provides examples of how data has been used to optimize business operations, improve customer service, and even predict market trends. The author also discusses the ethical implications of data analysis, particularly regarding the use of personal information and the potential for bias in algorithmic decision-making.

4. Finally, the paper concludes with a call to action for organizations to embrace data-driven decision-making. It encourages leaders to foster a culture of data literacy and to invest in the necessary infrastructure and talent to support data analysis efforts. The author believes that by doing so, organizations can unlock their full potential and achieve sustainable growth in the long run.



Senior Greek.

SECOND PAPER.

I.

Translate into Greek :

- (a) They thought they would wait till they saw whether he intended to follow them or not.
- (b) Who told us how we ought to set about the work ?
- (c) If they were not to deprive the enemy of these ships, they would repent of it.
- (d) O that he had not answered at all, as it was in his power to hold his peace !
- (e) They affirmed that if they had not revolted from Athens, she would soon have enslaved them.

II.

Translate into Greek :

In the camp before Numantia the wisdom and courage of Tiberius were all the more conspicuous (*διαλάμπω*) because of the unfitness (*ἀχρηστία*) of the Roman commander. The besieged Numantines had even ventured to come out and engage the besiegers before the walls of the town. And in the battle that ensued, if not victorious, they so disheartened (*καταπλήσσω*) the Roman general that he determined to raise the siege (*ἀπανίσταμαι*). Orders were sent round (*περιαγγέλλω*) to the soldiers to hold themselves in readiness (*παρασκευάζω*) to evacuate the camp during the night. He hoped in this way to withdraw unobserved by the inhabitants of the place. But the enemy were on the watch (*τηρέω*)

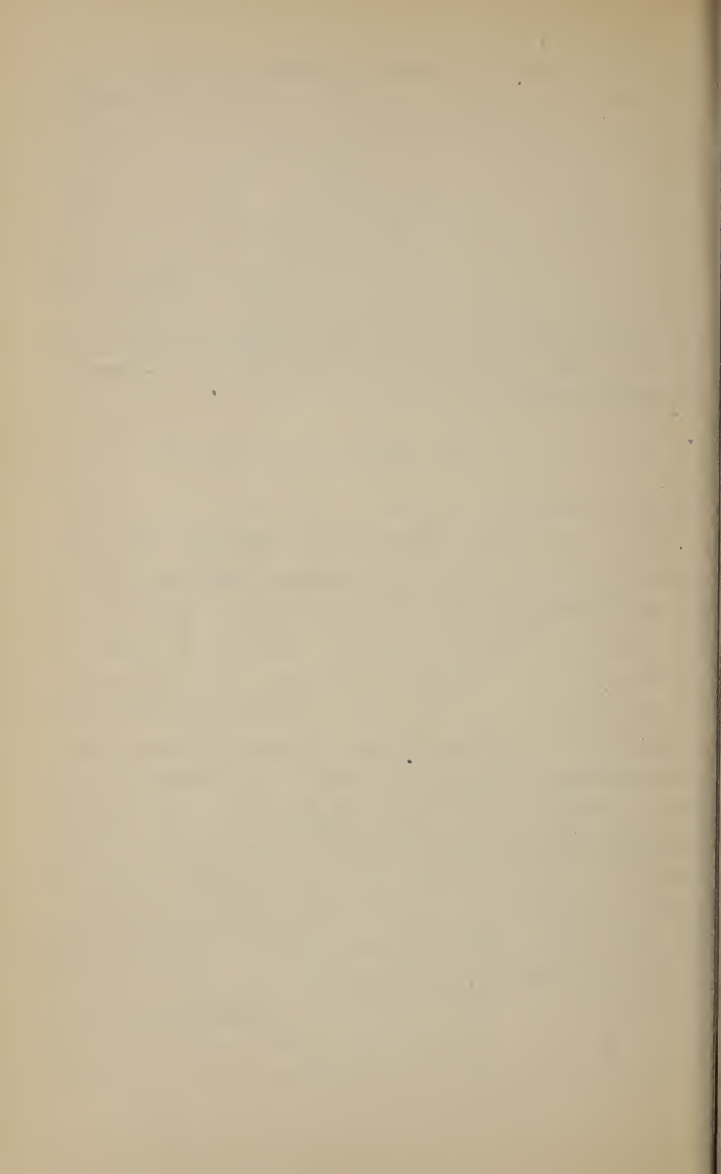
and made a spirited attack (*προθύμως ἐπιτίθεμαι*) upon the retreating army which they quickly surrounded (*ἐγκυκλόω*) and forced into an unfavourable position (*συνωθέω εἰς χαλεπὸν τόπον*) from which there was no escape. Despairing of (*ἀπογινώσκω*) safety, the general sent a herald to the Numantines to ask for a truce. They replied that they had no confidence in (*πιστεύω*) any of the Romans except Tiberius. If the general wanted peace, he must send *him* to them. Accordingly Tiberius was sent to the enemy's camp and partly by persuasion, partly by concession (*συγχωρέω*) he obtained peace for his countrymen and saved an army of twenty thousand men.

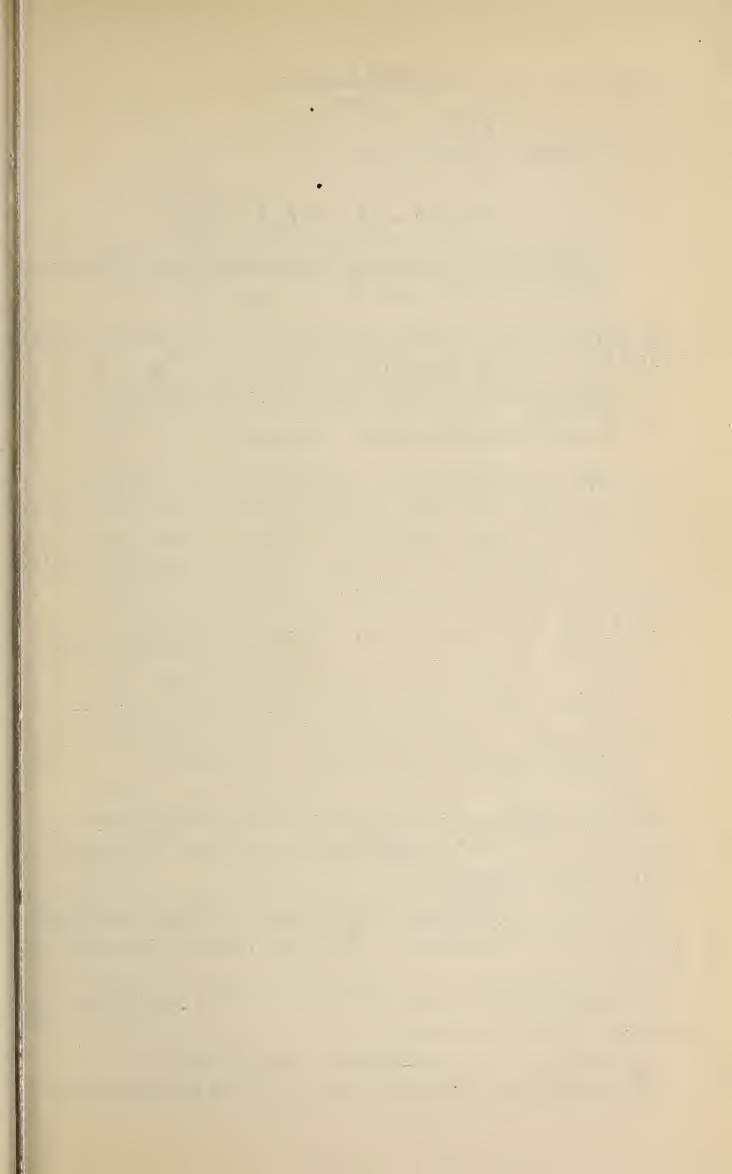
III.

Translate at sight :

τὸ δ' ἐκ τοῦ ἰσθμοῦ τεῖχος εὐθύς οἱ Ἀθηναῖοι ἀποτειχίσαντες ἐφρούρου· τὸ δ' ἐς τὴν Παλλήνην ἀτειχιστον ἦν· οὐ γὰρ ἱκανοὶ ἐνόμιζον εἶναι ἔν τε τῷ ἰσθμῷ φρουρεῖν καὶ ἐς τὴν Παλλήνην διαβάντες τειχίζειν, δεδιότες μὴ σφίσιν οἱ Ποτιδαῖται καὶ οἱ ξύμμαχοι γεγνομένοις δίχα ἐπιθῶνται. καὶ πυνθανόμενοι οἱ ἐν τῇ πόλει Ἀθηναῖοι τὴν Παλλήνην ἀτειχιστον οὖσαν, χρόνῳ ὕστερον πέμπουσιν ἑξαχοσίους καὶ χιλίους ὀπλίτας ἑαυτῶν καὶ Φορμίωνα τὸν Ἀσωπίου στρατηγόν. ὃς ἀφικόμενος ἐς τὴν Παλλήνην καὶ ἐξ Ἀφύτιος ὁρμώμενος προσήγαγε τῇ Ποτιδαίᾳ τὸν στρατὸν κατὰ βραχὺ προΐων καὶ κείρων ἅμα τὴν γῆν. ὥς δὲ οὐδεὶς ἐπέξῃει ἐς μάχην, ἀπετείχισε τὸ ἐκ τῆς Παλλήνης τεῖχος· καὶ οὕτως ἤδη κατὰ κράτος ἡ Ποτιδαία ἀμφοτέρωθεν ἐπολιορκεῖτο καὶ ἐκ θαλάσσης ναυσὶν ἅμα ἐφορμούσας.

Thucydides, B. I., 64.





Junior Algebra.

1. If $x = a + \frac{1}{a}$ and $y = a - \frac{1}{a}$,

$$\text{then } x^4 - y^4 = 8\left(a^2 + \frac{1}{a^2}\right)$$

State in language the theorem here given by symbols, and prove it.

2. Prove that if $Ax^n + Bx^{n-1} + \dots Sx + T$ be divided by $x - 1$ the remainder will be $A + B + \dots S + T$.

Show that $x^{10} + 3x^7 - 2x - 2$ is divisible by $x - 1$.

3. Simplify the fractions

i. $\frac{y+z}{(x-y)(x-z)} + \frac{z+x}{(y-z)(y-x)} + \frac{x+y}{(z-x)(z-y)}$

ii. $\frac{a^3}{(a-b)(a-c)} + \frac{b^3}{(b-a)(b-c)} + \frac{c^3}{(c-a)(c-b)}$

4. If $\frac{a}{b} = \frac{c}{d} = \frac{e}{f}$ prove that $\frac{la+mc+ne}{lb+md+nf} = \frac{a}{b}$

When $ax^2 + by^2 + 2z = 0$ and $\frac{ax}{l} = \frac{by}{m} = \frac{1}{n} = \frac{z}{p}$

Show that $\frac{l^2}{a} + \frac{m^2}{b} + 2np = 0$.

5. Two ropes are in length as 4 : 5 ; 6 feet are cut from each and their lengths are then as 3 : 4. What was their original lengths?

In an isosceles triangle the base is b , the side s and 5 times the area is $bs\sqrt{5}$. Find the ratio of the side to the base.

6. Extract the square root of $8 - 2\sqrt{15}$; and show by examples how you would

i. reduce an entire surd to a mixed surd.

ii. free a fraction from a binomial surd denominator.

7. In the quadratic $ax^2 + bx + c = 0$ deduce the relation amongst a b c that the roots may be

- i. real and unequal.
- ii. equal.
- iii. imaginary.

8. In a set of simultaneous equations what is the result of having (i) more equations than unknowns
(ii) less “ “ “

Given $2x - y + 3 = 3x + 2y - 5 = x + 4y + m = 0$ to find m .

9. A rectangular plot with sides a and b is bordered within with a walk of uniform width. How wide is the walk when it occupies one half the plot?

10. Prove that generally an expression giving the sum of an $A.P.$ involves both n and n^2 ; and state the particular cases in which it may not involve one or the other of these.

Find the sum of n terms of an $A.P.$ whose n th term is $\frac{n-1}{2}$

How many terms will make 1580?

11. Explain the difference between a “permutation” and a “combination.” Prove that $nPr = nCr \times r!$

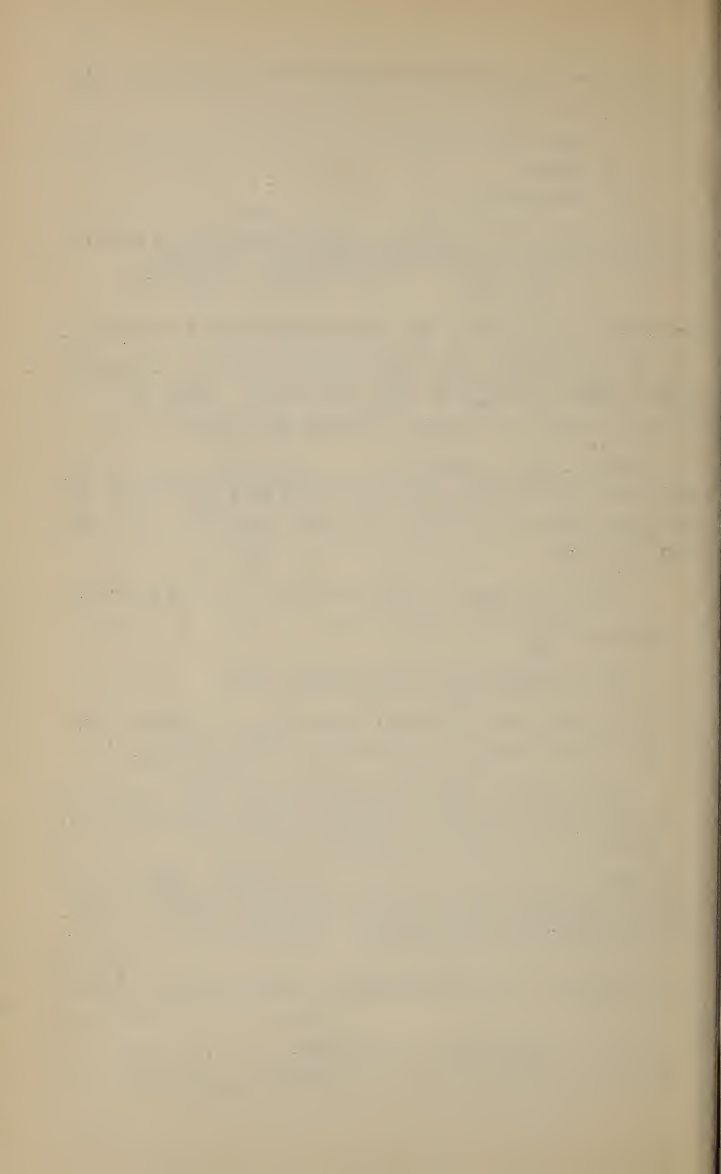
How many different guards of 5 men could be made from 12 men; and how often relatively will any one man be on guard?

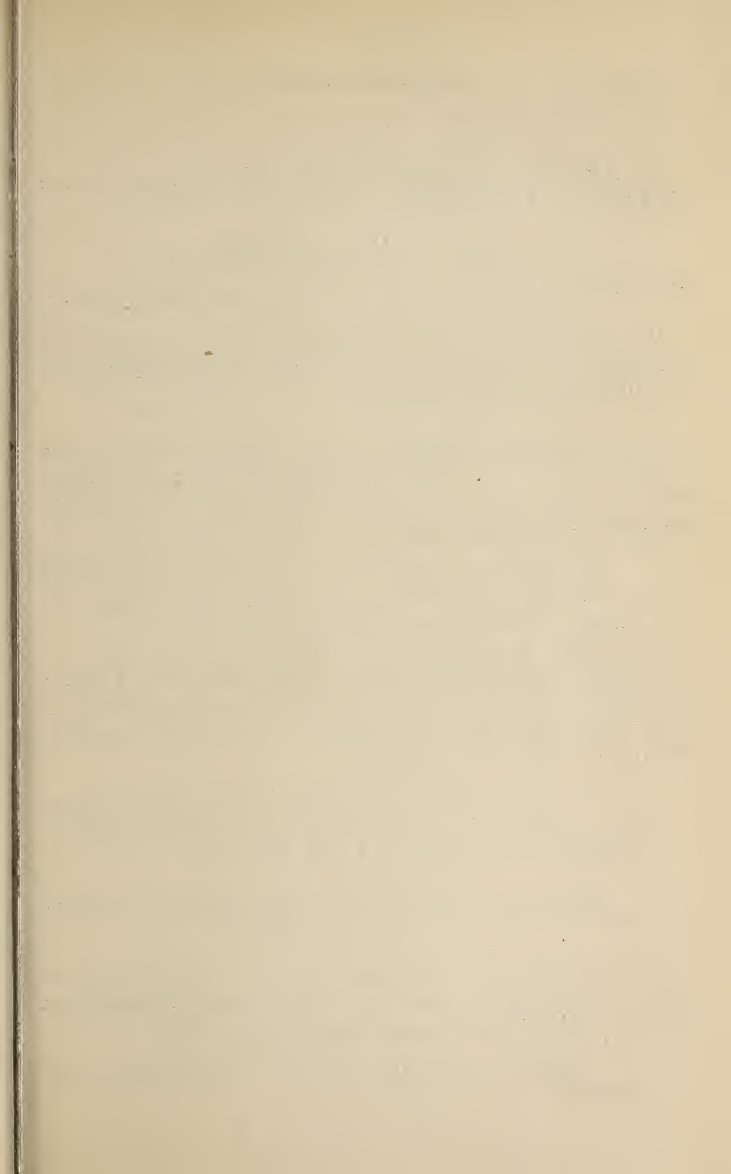
12. Write out the expansion of $(1+x)^n$. When $x=1$ what conclusion follows with respect to all the combinations that can be made from n articles?

13. What is the characteristic of a logarithm? Show how to find it.

If $\log. 2 = 0.3010$, $\log. 6 = 0.7782$.

Find $\log. 15$, $\log. \frac{3}{8}$, $\log. \sqrt{(0.008\dot{3})}$, $\log. (7.2)^6$.





Junior Geometry.

1. ABC is an isosceles triangle and CD cuts the base AB in D . Prove that

$$CA^2 - CD^2 = AD \cdot DB,$$

and show in what sense this relation is universally true.

2. Divide a line into two parts so that the rectangle contained by the parts may be equal to the differences of the squares upon the parts.

3. If a chord be drawn from the point of contact of a tangent line to a circle the angles between the chord and line are equal to those contained in the alternate segments into which the chord divides the circle.

Tangents are drawn at the vertices B and C of a triangle inscribed in a circle. Show that the angle between these tangents is $\pi - 2A$.

4. The angle of intersection of two secants to a circle is measured by half the sum of the intercepted arcs or half their difference, according as the secants intersect within the circle or without it.

In a given circle an inscribed equilateral triangle has its vertices A, B, C and an inscribed regular pentagon has vertices A, D, E, F, G .

Express in radians the angle between the lines AC and DF ; between AC and GF .

5. Two triangles having two sides in the one proportional to two sides in the other, and the angles contained by these sides in each equal, are similar.

Describe the "line of lines" in the sector and its uses.

6. If two triangles have an equal angle their areas are proportional to those of the rectangles under the sides containing the equal angle in each.

7. (a) Express each trigonometric function in terms of the sine.

(b) Find θ when $2 \sin^2 \theta + \sqrt{2} \cos \theta = 2$.

8. Obtain the formula $a^2 = b^2 + c^2 - 2bc \cos \theta$.

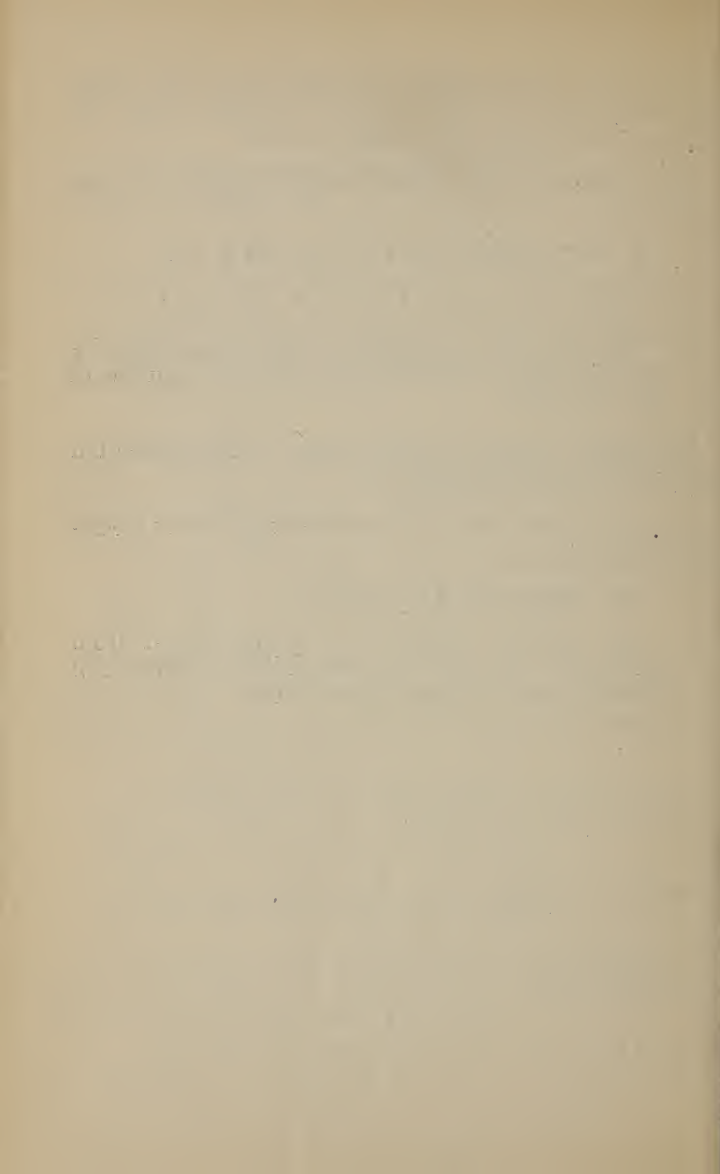
The sum of the squares of the diagonals of a parallelogram is equal to the sum of the squares of the four sides.

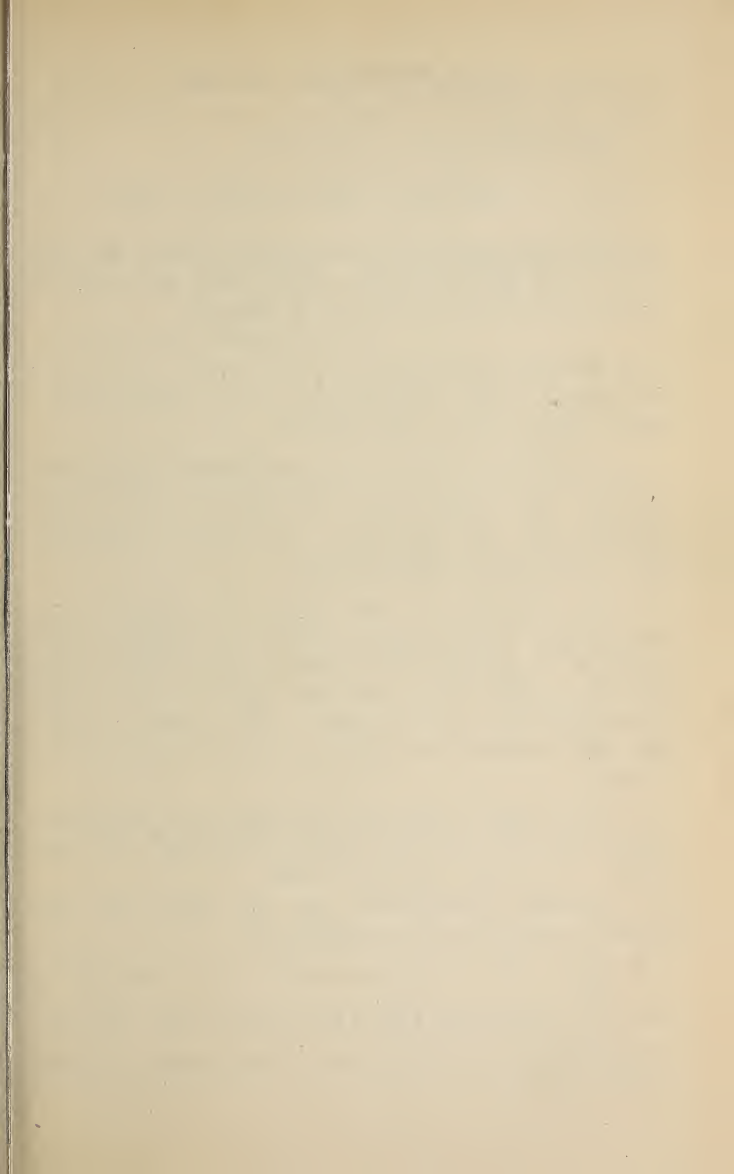
9. Define a plane—a ruled surface. The intersection of two planes is a straight line.

10. AA' , BB' , CC' , DD' are the diagonals of a cube whose edge is e .

(a). Show that $AA'^2 = 3e^2$.

(b). Find the length of the perpendicular from BX upon AA' , and the perpendicular distance of X from one of the faces of the cube.





Junior Mathematics—Problems.

1. When $2s = a + b + c$ prove that

$$\left\{ \Pi(s-a) \right\} \cdot \left\{ 2 + \Sigma \frac{a}{s-a} \right\} = abc.$$

2. A 's age exceeds B 's by n years, and is as much below m as B 's is above p . Find their ages and interpret your result when (1) n is negative.

(2) n is greater than $m + p$.

3. Which is greater and by how much, the diagonal of a square or the perpendicular of an equilateral triangle equal in area to the square?

4. A circle is inscribed in an equilateral triangle, and a second circle to touch the first and two sides of the triangle, and a third circle to touch the second circle and the same two sides, and so on *ad inf.* Find the sum of the areas of all the circles.

5. The attraction at the surface of a planet varies directly as the mass and inversely as the square of the radius of the planet. The earth's radius is 4000 miles and the moon's 1100; and the moon's mass is one-seventy-fifth that of the earth. How much would a man, who weighs here 150 lbs., weigh if taken to the moon?

6. Three equal circles are inscribed in an equilateral triangle so as to touch the sides of the triangle and each other. Find their common radius.

7. Describe Peaucellier's cell and prove that the tracing point moves in a straight line.

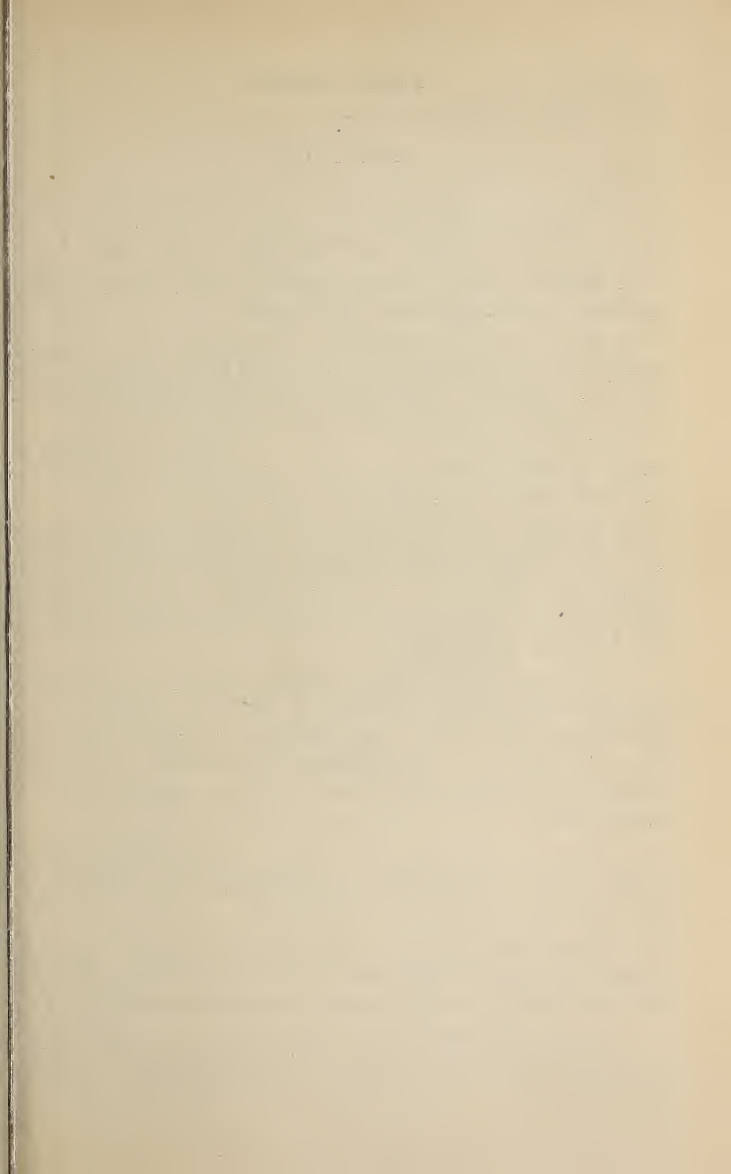
8. Prove that the circumradius of a triangle is $R = \frac{abc}{4\Delta}$; and show that if the centres of the three escribed circles be joined the area of the triangle so formed is $R(a + b + c)$.

9. If a, b denote the sides of a parallelogram and θ the angle between them, one diagonal is double the other when

$$\cos \theta = \frac{3}{10} \left(\frac{a}{b} + \frac{b}{a} \right)$$

10. Find the form and area of the largest rectangle which can be inscribed in a given semicircle.





Junior Physics.

FIRST PAPER.

N.B.—Only 14 questions to be answered.

1. Define the following terms: *wave, equal times, radian, weight, dyntach, hydrometer.*

2. Prove that the distances described in successive equal intervals of time by a body, which starts from rest and is uniformly accelerated, are as the odd numbers.

3. Give illustrations of *mass* and *weight*, (5 of each), which contrast with one another, to shew the difference between these two properties of matter.

4. A body of 6 lbs. pulls by its weight another body of 4 lbs. along a smooth horizontal table by means of a connecting cord; find the time taken to move through 965 feet, the distance described in the last second, and the tension of the cord.

5. A piece of platinum of 15 lbs. mass is attached to 10 lbs. of iron, and the whole is found to balance 1 lb. in mercury (s.g. 13.6); the platinum by itself balances 6 lbs. in mercury; find (1) the specific gravity of the platinum, (2) the s.g. of the iron, (3) the weight in water of the iron.

6. Find in *dyntachs* the rate at which a fire-engine works, which discharges 10 kilograms of water per second with a velocity of 1500 tachs.

7. Enunciate *Newton's third law of motion*: give 4 illustrations of it: how can it be said that Newton in this law laid the foundation of the science of energy?

8. Determine the loss of *visible kinetic energy* when two spheres without rotation impinge directly. What becomes of it?

9. Define a *dimensional equation*. Write down the dimensional equations of *angular velocity*, *energy*, *angle*, *pressure-intensity*, and *density*.

10. Three bodies P , Q , R , of masses 30, 15, and 10 kilograms respectively, are connected by strings AB , and BC , whose lengths are 5 m., and 70 cm. Q , R , BC , and half of AB lie on the edge of a table vertically under a peg, over which the other half of AB is placed holding P . If P be now allowed to fall freely, find the motions of P , Q , and R , the tensions of the strings after both become stretched, and the measures of the impulsive tensions which set Q and R in motion.

Friction and the masses of the strings may be neglected, and $g = 980$.

11. The dimensions of a room are 10 metres, 5 m., and 8 m.; find the difference between the mass of air in the room when the temperature is -10° and pressure 78 cm., and when 20° and pressure 73 cm.

12. Steam at 100° and 76 cm. pressure is forced into a mass of snow at 0° ; how many grams of snow are melted by a gram of steam?

13. What is meant by a space being *saturated* with aqueous vapour? Define the *dew-point* and explain how it is practically determined.

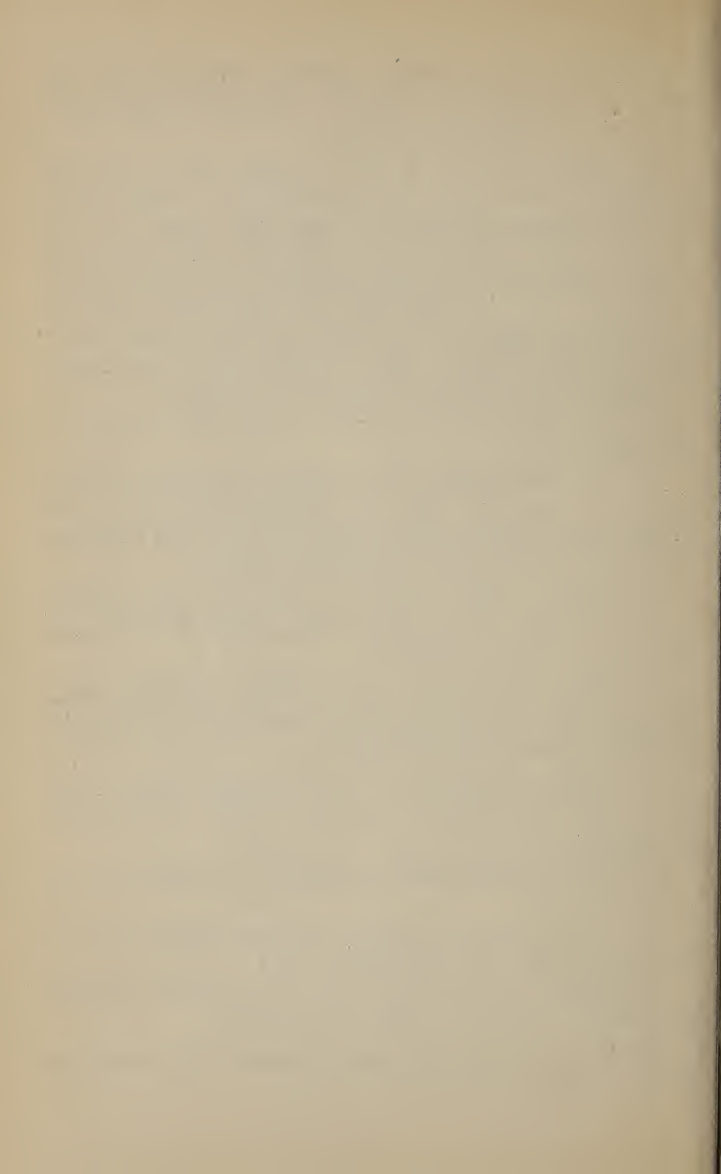
14. Define *temperature* and *thermal equilibrium*. Enunciate the principle assumed in the measurement of temperature.

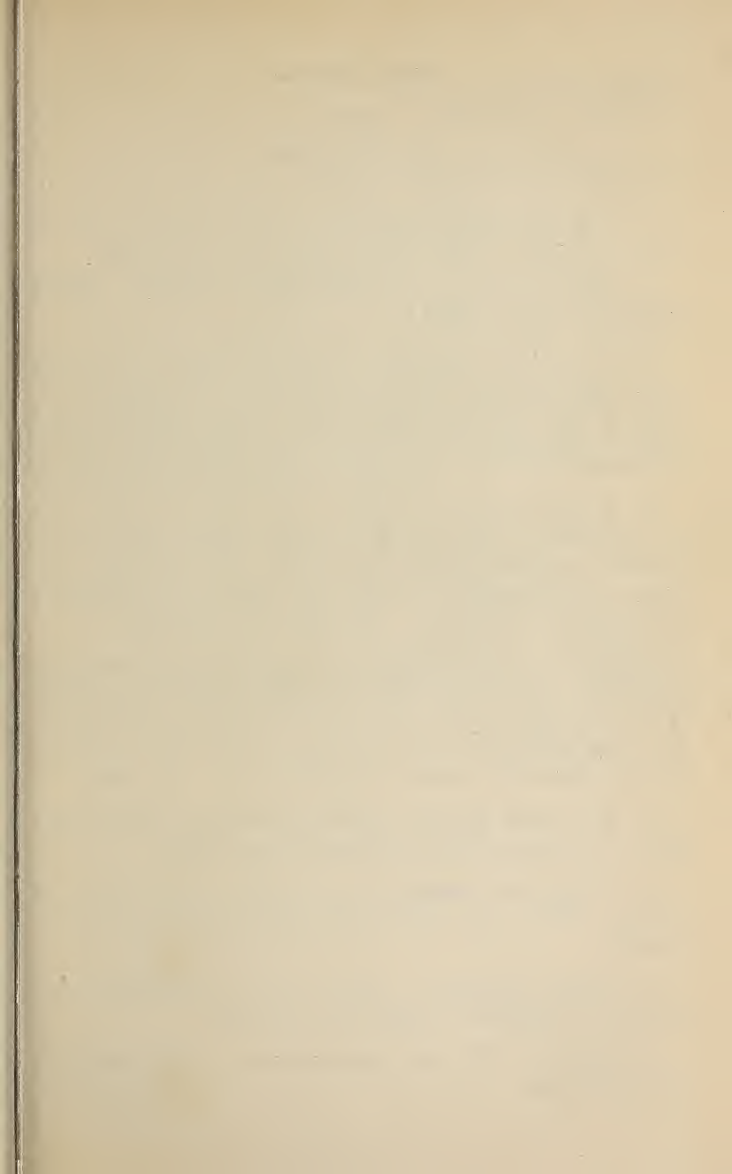
15. Enunciate the laws of reflection and refraction of radiant energy.

16. What is the *aberration of light*? How can the velocity of light be determined by it?

17. Define *total reflection*. Find the relation between the *critical angle* and *index of refraction*.

18. Trace the path of a ray of white light through a prism. What is *dispersion of light*?





Junior Physics.

SECOND PAPER.

N.B.—Only 14 questions to be answered.

1. Enunciate and prove the *polygon of forces*. Is the converse true? Why?

2. Prove that a system of forces acting in one plane on a rigid body will be in equilibrium if the algebraical sum of the forces resolved parallel to two fixed straight lines in the plane vanishes, and the algebraical sum of the moments round any point in the plane also vanishes.

3. A man carries a bundle at the end of a stick over his shoulder: if the portion of the stick between his shoulder and his hand be shortened, how will the pressure on his shoulder be altered? Will his pressure on the ground be altered? Explain your answers.

4. A body of 50 kilograms hangs at rest, and is supported by two strings whose lengths are 1.5 m., and 2 m. The other ends of the strings are fastened at two points in a horizontal line 2.5 m. distant from one another; find in *dynes* the tension of each string. $g = 980$.

5. Enunciate Kepler's laws of planetary motion, and give the mathematical deductions from each.

6. Explain the floating of a needle on the surface of water. Why can ships built entirely of iron float in water?

7. Define diffusion. What are the differences between the diffusion of gases and liquids?

8. Explain fully the accumulation of electricity in a Leyden jar.

9. What is meant by saying that electricity resides only on the external surface of a conductor? Describe two experiments to prove this.

10. Determine the relation between the *energy*, *capacity*, and *potential* of a charged conductor.

11. What is atmospheric electricity? How is it produced? How is it measured?

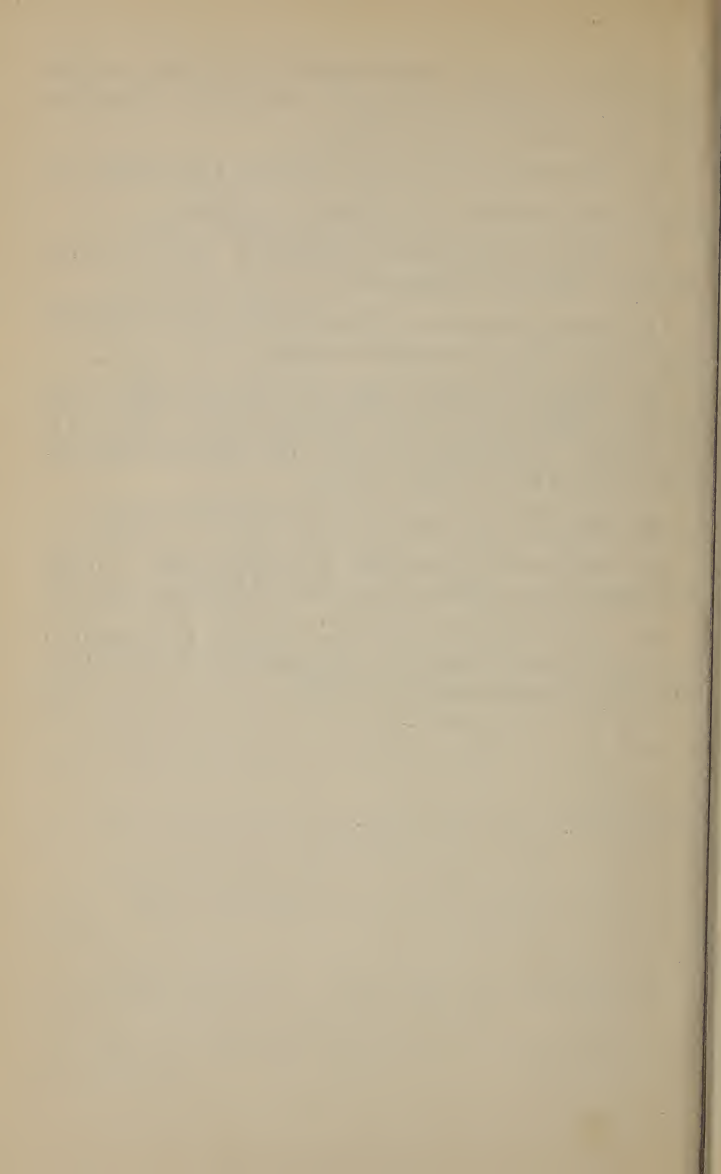
12. Describe *induction* in *Voltaic electricity*. Describe the construction of an *electromagnet*.

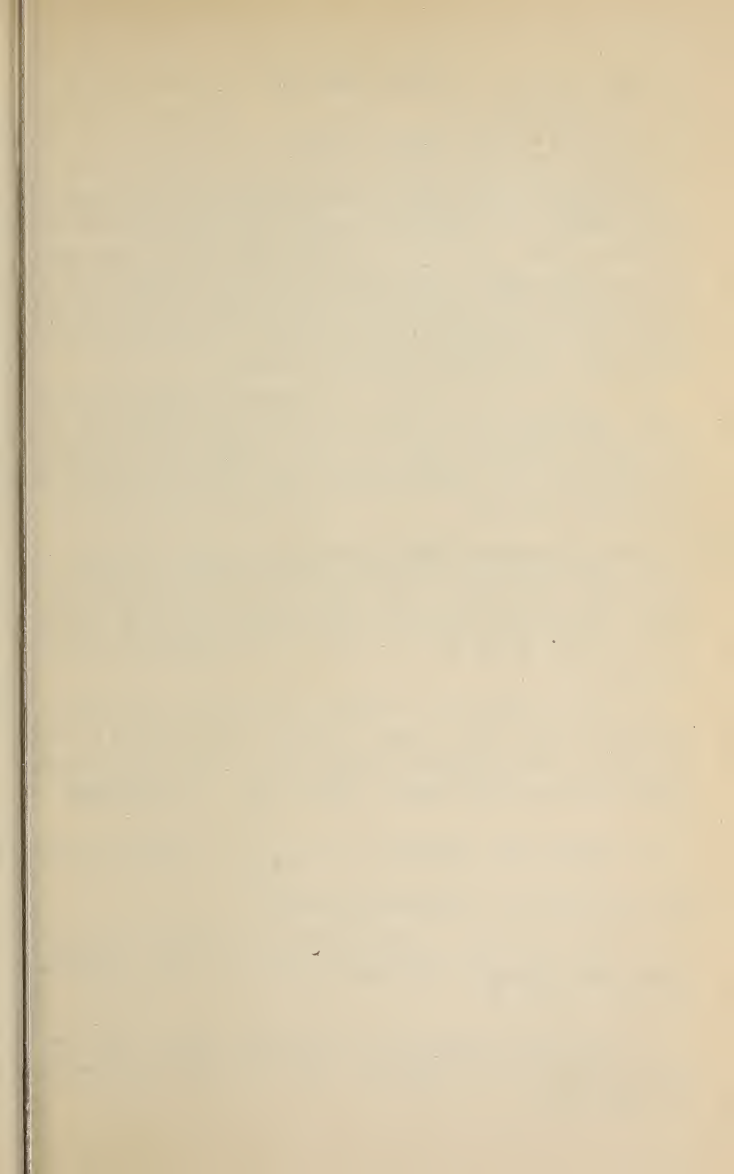
13. What are lines of magnetic force? How may they be determined in any magnetic field? Describe a convenient experiment to trace the lines of magnetic force around an ordinary magnet.

14. Describe the construction and use of a *syren*.

15. Explain the production of acoustic beats. What important fact regarding beats has Helmholtz proved?

16. What relation must exist between the length of an organ pipe and the note produced by it? Calculate the length for the note C ($= 256$).





Senior Physics.

FIRST PAPER.

1. Prove that the sum of the products of the mass of each particle of a material system into the square of its distance from any point exceeds the sum of the products of the mass of each particle into the square of its distance from the centre of mass by the product of the sum of the masses into the square of the distance between the point and the centre of mass.

2. A body whose mass is 10 kilograms draws another body of 20 kilograms by means of a stretched rope along a rough horizontal plane. If the coefficient of friction be $\frac{1}{4}$, find (1) the tension of the rope, (2) the motion of the centre of mass,

3. Prove that the effect of friction (angle of repose ϵ) on a screw of angle α is to make the mechanical advantage the same as that of a frictionless screw of angle $\alpha \pm \epsilon$, according as P is just overcoming W or W overcoming P .

4. If the coefficient of friction between a rope and a cylinder be 0.5, and a man can exert a force equal to the weight of 100 kilograms, what force could he balance with 4 turns of the rope? Given $\log. e = 0.4342925$.

5. Deduce the formula $t = \pi \sqrt{\frac{l}{g}} (1 + \frac{1}{4} \sin^2 \alpha)$ for the oscillation of a simple pendulum.

6. Prove that in an atmosphere of uniform temperature the pressure decreases in G. P. as the altitude increases in A. P.

7. Find the hodograph of a planet's motion, and deduce therefrom the apparent path of a star on account of aberration.

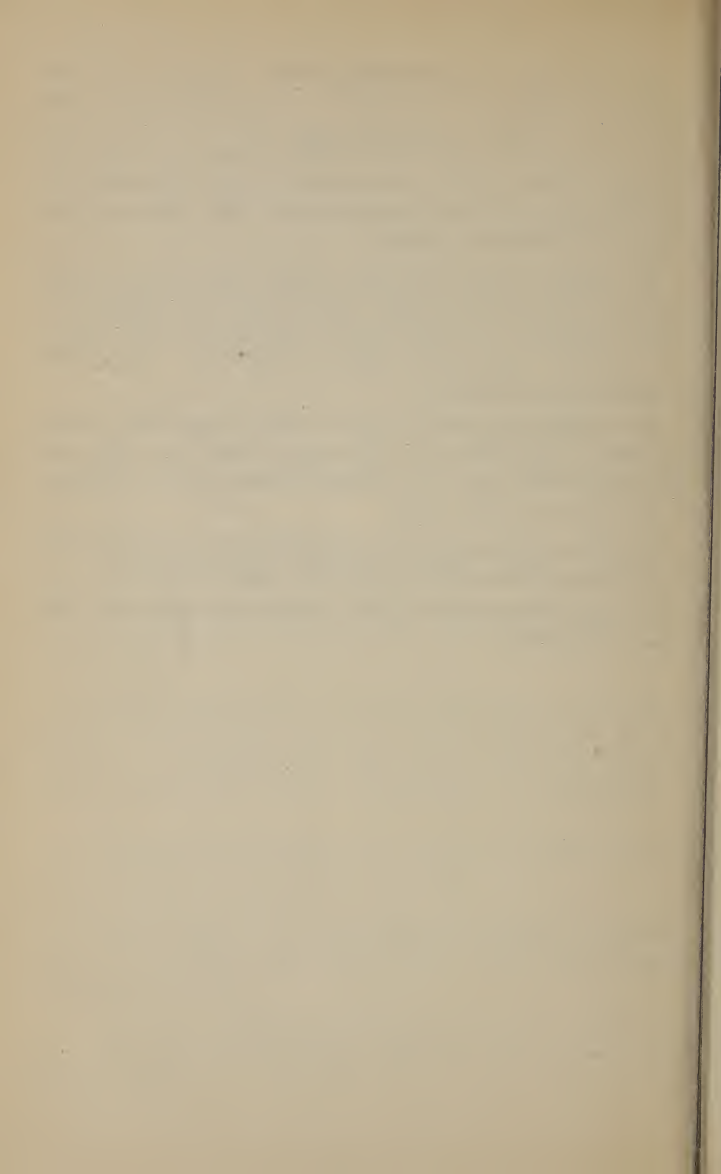
8. A string can just support the weight of 100 lbs. without breaking. A body of 1 lb. is attached to one end of the string a yard long, and made to revolve uniformly about the other end as centre; find the maximum velocity which can be given to the body. Find also the kinetic energy in foot-pounds of the body when revolving at its maximum speed.

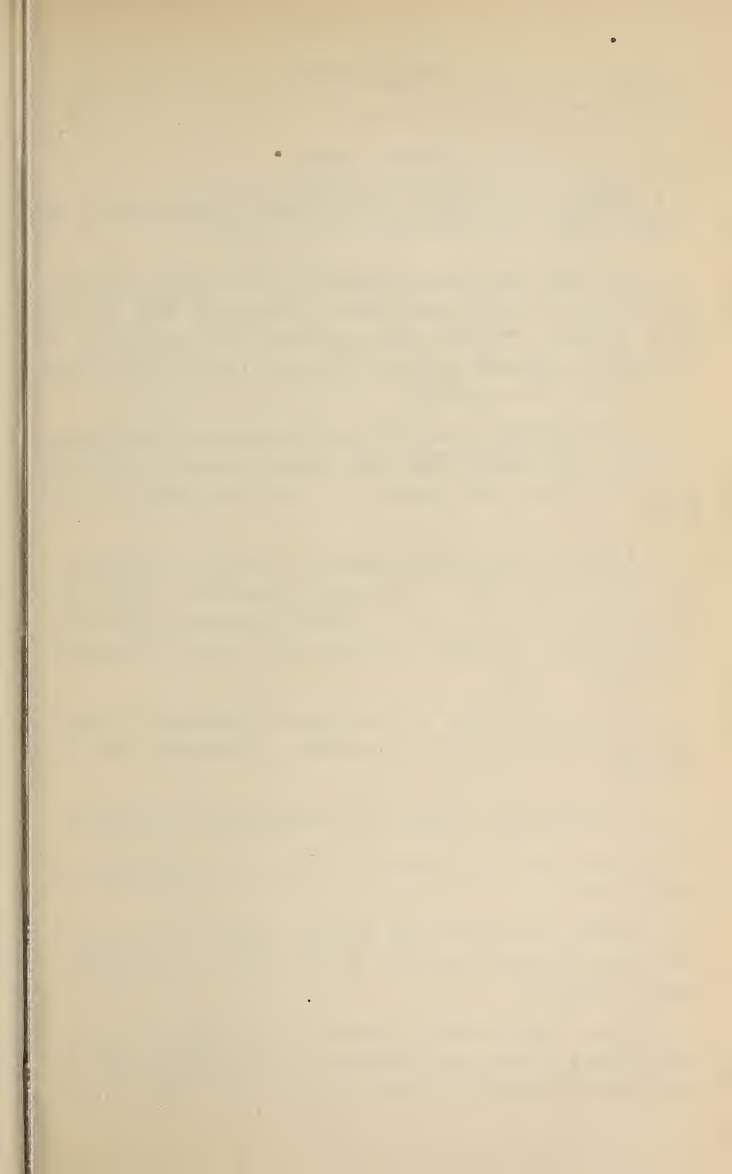
9. Define *simple harmonic motion* and prove that the motion of a spiral spring stretched by the weight of a body attached to it and made to oscillate is S. H. M., if the mass of the spring may be neglected. Find also the time of oscillation.

10. Define the *moment of inertia* of any body about an axis. Find that of a rectangle about an edge and thence deduce that of a triangle about an axis coinciding with one of the sides.

11. The right ascension and north polar distance of a star being given, find its latitude and longitude.

12. The mass of the earth being taken as unity, find that of the sun.





Senior Physics.

SECOND PAPER.*

1. Define the centres of oscillation and percussion of a rigid body, and shew that they coincide.

2. To find the law of thickness of a vessel of cylindrical bore, in order that when filled with fluid of uniform density, with its axis vertical, the tendency to burst, as measured by the tension at every point, may be the same throughout.

3. A cone with its axis vertical and base downwards is filled with fluid; find the normal pressure on the curved surface, and compare it with the weight of the fluid.

4. Define the *limiting ratio* of variable quantities, and the *prime ratio* of nascent quantities. Find the limit of $x + 3 \div 1 + 3x$, (1) when x becomes gradually smaller and ultimately vanishes, (2) when x becomes indefinitely large.

5. Find, according to Newtonian methods, the area enclosed by the arc of a parabola, a diameter, and an ordinate.

6. Find also the volume of a paraboloid of revolution.

7. Find also the centre of mass of a paraboloid of revolution.

8. Define *curvature* and find the radius and chord of curvature through the pole at any point of an equiangular spiral.

9. Every body which moves in any curve line described in a plane, and describes areas proportional to the times of describing them about a point either fixed

or moving uniformly in a straight line, by radii drawn to that point, is acted on by a centripetal force tending to the same point.

10. If a body is moving in a parabola under the action of a force towards the focus; find the law of force.

11. At a point O in a horizontal dial a style OA is fixed so that its angle of inclination AOB is equal to the latitude $44^{\circ} 13' 26''$, and the direction OB is due north; what angle will OB make with the shadow of OA in the horizontal plane at 1 p.m.

12. Find the geocentric latitude ϕ' , and the radius of the earth, at the geographical latitude ϕ .

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Junior Philosophy.

1. Explain and examine Anaxagoras' doctrine of the *Noûς*.

2. Estimate the value of the arguments for Immortality contained in the *Phaedo* and the *Republic*.

3. What answers are given by Plato to the views of Thrasymachus on Justice?

4. Why is Poetry called a "noble lie?" What is meant by the "lie in the soul?"

5. Explain the Platonic conception of the relations of Music and Gymnastic to the two sides of human nature.

6. How does Plato show that the Soul has three "parts?"

7. What distinction is drawn between Ignorance, Opinion and Knowledge?

8. Explain the allegorical figure of the man of three-fold nature.

9. Give and explain Aristotle's definition of Soul.

10. How does Aristotle distinguish between Sensation, Imagination and Memory? Compare his view of Association with that of recent psychologists.

11. "Virtue is a mean." Examine this saying.

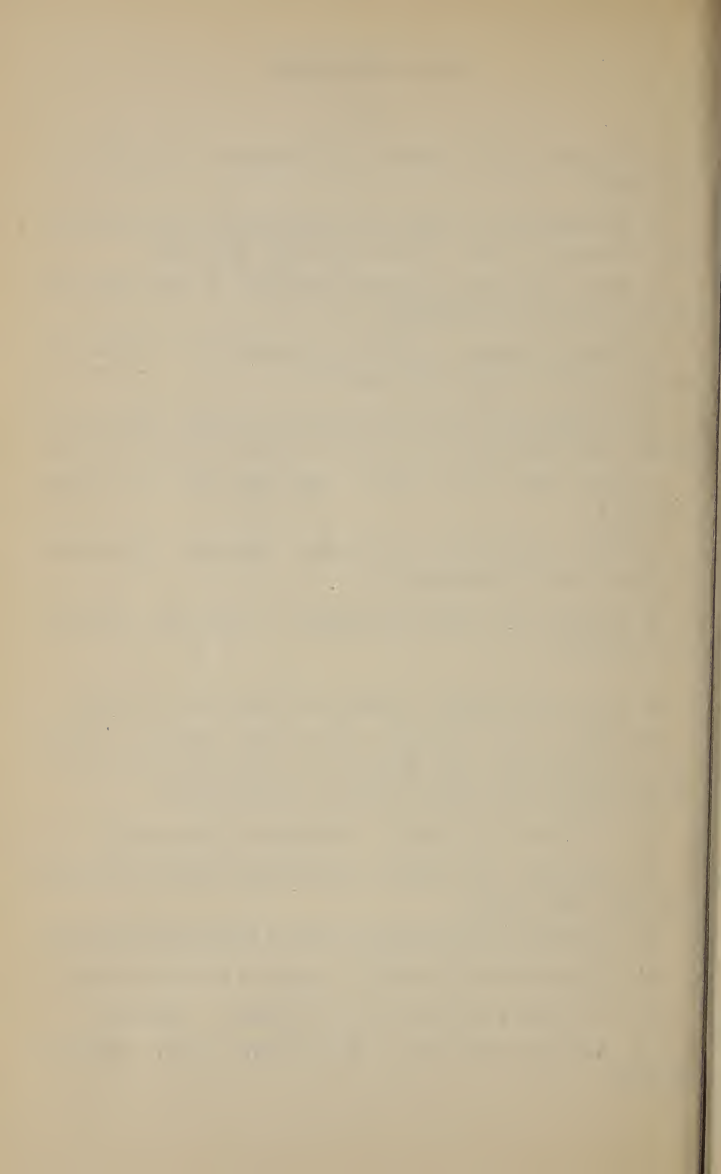
12. Compare the ethical doctrines of the Cyrenaics and the Epicureans.

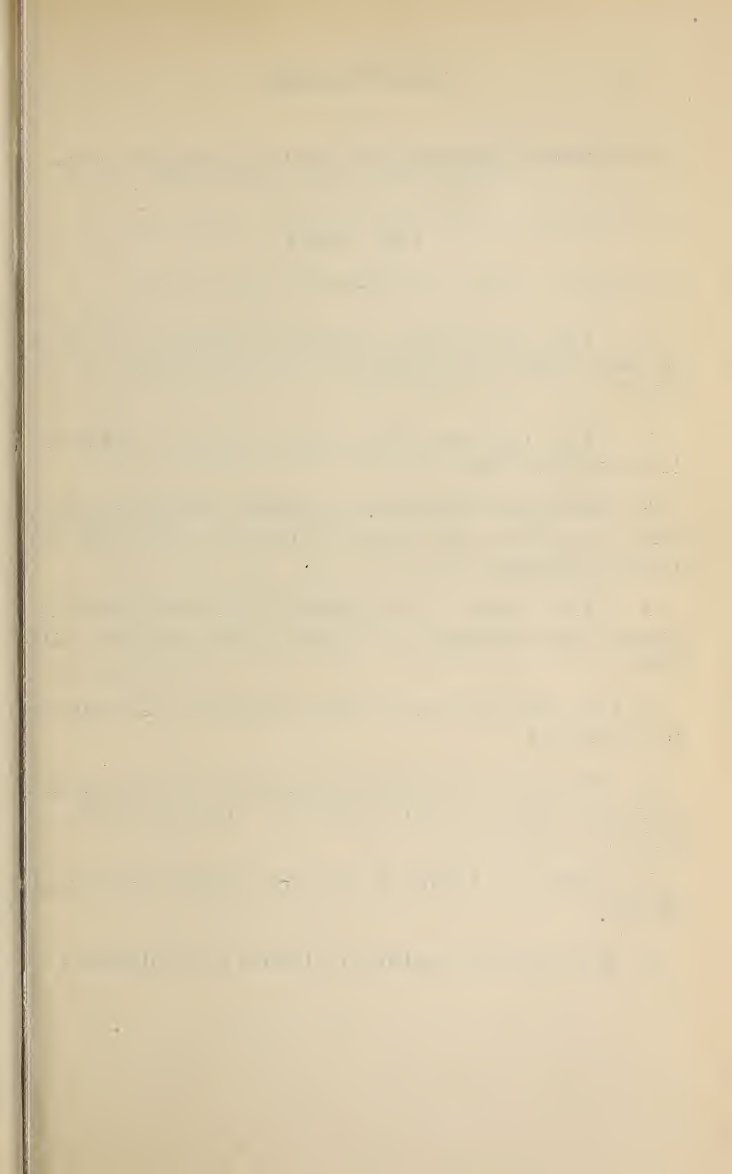
13. Criticise the Dualism of Des Cartes and Spencer.

14. Characterise the three stages of Consciousness.

15. "To have a motive is to be free." Explain.

16. Analyse the idea of Personality as the basis of Rights.





Senior Philosophy.

Candidates for Honours will also take the following two papers.

FIRST PAPER.

1. "The knowledge of nature implies a principle in man which is not natural." In what sense is this true?
2. "The Understanding makes nature." Examine this saying of Kant.
3. Distinguish between an Idealism which interprets facts as relations, and a so-called Idealism which reduces facts to feelings.
4. "The eternal Consciousness reproduces itself in human consciousness." Explain and examine this view.
5. Can circumstances be said to determine the motive to an action?
6. "My future character is determined by my present character: hence I cannot be free." Is this a valid objection to Freedom?
7. Is Human Desire of the same nature as Animal Want?
8. What are the relations of Desire and Intellect?

SECOND PAPER.

1. Is Will simply the strongest Desire ?
2. How far are Thought and Will opposed to one another ?
3. Is there ever a desire for the pleasure of self-satisfaction ?
4. Is Mill's distinction of pleasures according to their quality consistent with the hedonistic basis of his theory ?
5. Distinguish between Good and Moral Good.
6. "Moral Goodness must realise itself in Persons." Explain this.
7. How does the ideal of Perfection determine the moral development of man ?
8. Show how the idea of Common Good is enlarged and specified.

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Logic.

1. What are the conditions of ambiguity in terms?
2. State in logical form and give the logical opposites of
Only the just are good.
3. Why can there be only three terms and three propositions in a syllogism?
4. Why can the second figure prove only negative and the third only particular conclusions?
5. What is meant by the Quantification of the Predicate? What are some of the advantages claimed for it?
6. Give examples of a proposition and a syllogism in extension; also in intension.
7. How are Induction and Deduction employed in scientific discovery?
8. State in syllogistic form and examine the following arguments :—
 - (a) None but whites are civilized; the ancient Germans were whites; therefore they were civilized.
 - (b) No one is rich who has not enough; no miser has enough; therefore no miser is rich.
 - (c) He who is content with what he has is truly rich; a covetous man is not content with what he has; no covetous man therefore is truly rich.
 - (d) The law of Moses prohibited theft, murder, &c. But that law is abolished; therefore theft, murder, &c., are not prohibited.
 - (e) Almost all the metals are solids; therefore tin is a solid.

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Political Economy.

1. (a) Define wealth. Show by examples (b) that some useful objects are not included under that term, (c) that some things are wealth to the individual which are not wealth to the nation.

2. Distinguish actual from potential capital, and show the bearing of this distinction on the alleged possibility of a benefit to industry from the interference of government.

3. "The day's wage of the labourer is greater in Canada than in Britain." Show what causes may so increase the productiveness of labour in the former case that its real cost to the employer may be even less.

4. (a) Distinguish Communism from Socialism. (b) Examine the doctrine that labour *alone* is the substance of value.

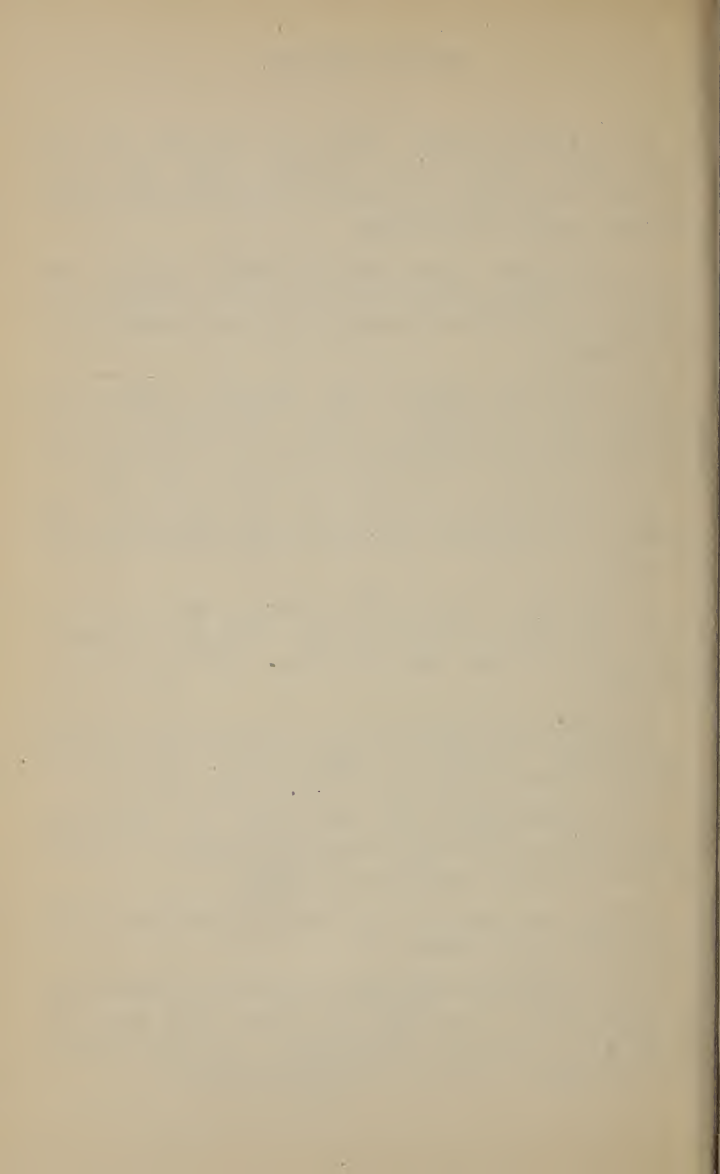
5. State the "law of Diminishing Returns" from land. (b) Deduce therefrom the "Theory of Rent," and (c) show under what limitations the theory is applicable.

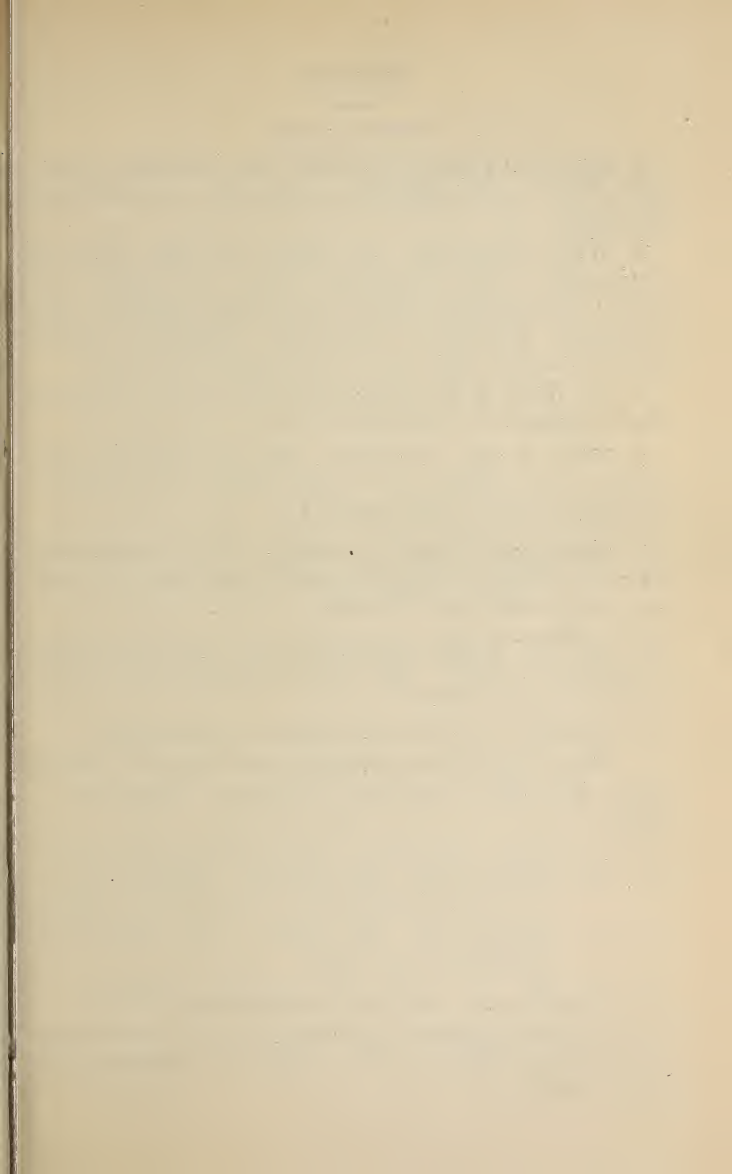
6. In what circumstances may Trades-Unions achieve a permanent increase in wages, and in what circumstances will they likely fail to secure that result?

7. (a) Distinguish value from price. (b) Show that there can be no universal fall or rise in values. (c) What are the necessary conditions of value?

8. State and examine objections to a protective tariff or a system of bounties.

9. (a) On what grounds may a government justly exercise the power of taxation? (b) What rules should be observed in exercising that power? (c) Give reasons for and against a system of indirect taxation.





Chemistry.

FIRST PAPER.

1. Explain, giving examples, the following terms: *hydroxide*; *hydrosulphide*; *acid salt*; *normal salt*; *basic salt*.

2. What substances are formed by the action of *nitric acid* on the following: (a) *tin*; (b) *copper*; (c) *starch*; (d) *aqueous solution of ferrous sulphate*; and (e) *aqueous solution of ammonia*? Mention whether the acid in each case is to be concentrated or not.

3. (a) What is the composition of *borax*? (b) From what sources is it obtained?

4. What is the composition of the following substances: (a) *whiting*; (b) *white lead*; (c) *red lead*; (d) *paper*; and (e) *blue vitriol*?

5. Show, by writing the formulas of their compounds, the relationship in chemical properties between *nitrogen*, *phosphorus*, and *antimony*.

6. (a) How would you prepare an aqueous solution of *sulphurous acid*? (b) What substances are formed by its action on *iodine*?

7. Describe a process for making *caustic potash*.

8. Write equations representing the chemical actions which take place when the following substances are mixed:

(a) aqueous solutions of *sodic carbonate* and *hydrochloric acid*; (b) *sulphuric acid* and *copper*; (c) *nitric acid* (dilute) and *copper*; (d) *silicon tetrafluoride* and *water*; (e) *phosphorus tribromide* and *water*.

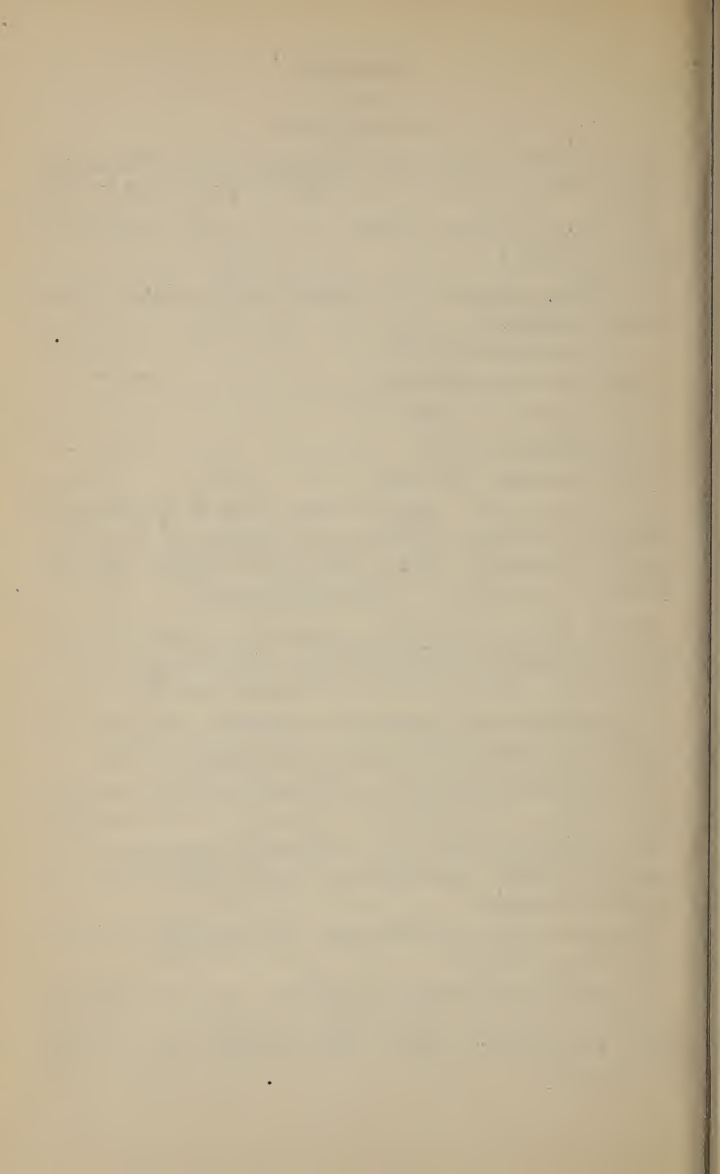
9. Describe two methods for preparing *chlorine*.

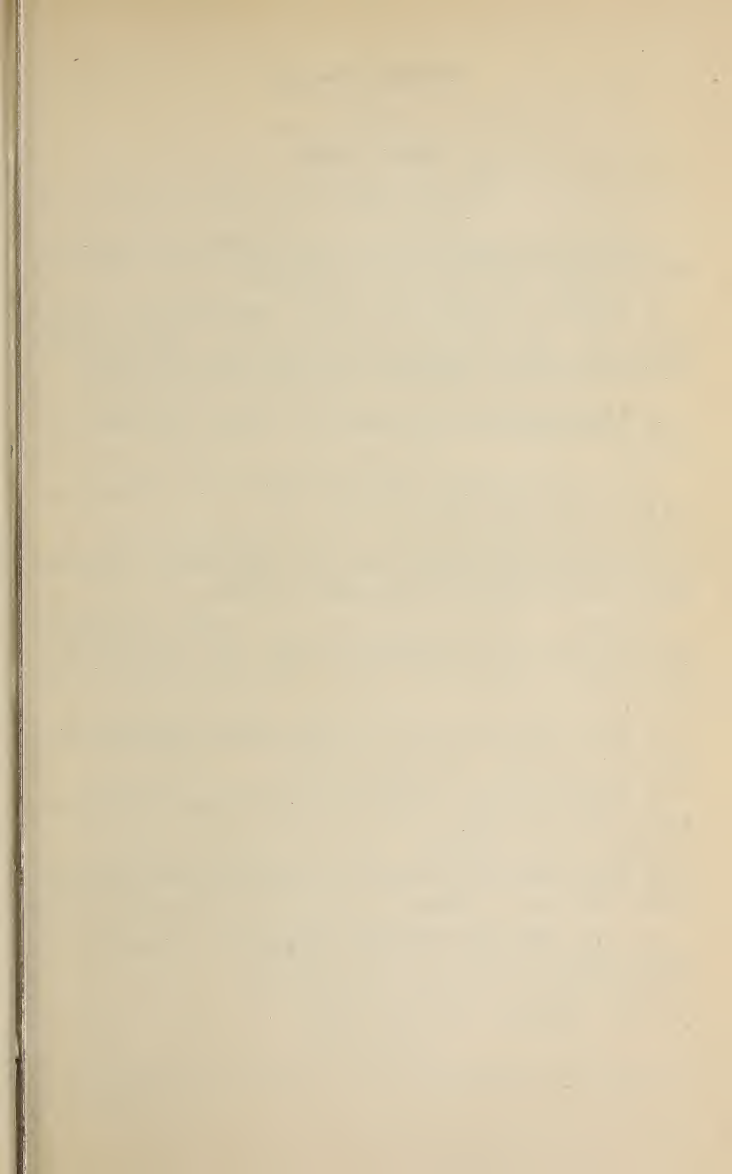
10. What weight of air is there in a vessel of *ten litres* capacity filled at 17° centigrade and 2000 millimetres pressure?

Chemistry.

SECOND PAPER.

1. (a) How is *green vitriol* prepared? (b) What substances are produced by heating it to a red heat in air?
2. What chemical actions go on in the burning of coal in a grate?
3. What substances are formed by the action of heat on the following:
 - (a) *ammonic chloride*.
 - (b) *ammonic nitrate*.
 - (c) *ammonic phosphate*.
 - (d) *mercuric oxide*.
 - (e) *mercuric chloride*.
4. (a) Enunciate *Boyle's Law*. (b) A quantity of hydrogen measures 10 litres at a pressure of 700 millimetres of mercury. What will be its volume when the pressure is increased to 1000 millimetres?
5. (a) How is *chlorine monoxide* prepared? (b) What substances are formed when *chlorine monoxide* is mixed with *aqueous solution of caustic potash*?
6. (a) What is the general composition of glass? (b) Explain the etching of glass by *hydrofluoric acid*.
7. (a) Give the names and formulas of the principal salts of *silver*. (b) Explain the "fixing" of a photograph.
8. (a) Describe shortly a method for preparing *nitric acid*. (b) Write the formulas for *plumbic*, *sodic*, and *ammonic nitrates*.
9. Give names and formulas of a *monacid*, a *biacid*, and a *triacid alcohol*.
10. Calculate the specific weights of *carbon dioxide*, *nitrogen*, *ammonia*, *marsh gas*, and *chlorine*, air being taken as standard. (N.B. Air is 14.43 times as heavy as hydrogen).





Natural Science.

FIRST PAPER.

1. State and explain the points of difference between the Mineral and Vegetable kingdoms.

2. Define the following terms ;—Protoplasm, Vegetable Cell, Parenchyma, Intussusception, Chlorophyll, Aleurone, Tissue, Epiphyte, Legume, Multiple fruit.

3. Describe the various modes in which new cells are formed.

4. Give all the differences you know between Branches or Stems and Roots.

5. State as fully as you can the differences between Anemophilous and Entomophilous plants.

6. What are the chemical elements which constitute the food of plants, and whence does the plant obtain each of them ?

7. Give the characters of (1) Rosaceæ, (2) Leguminosæ, and mention examples of each.

8. Describe three kinds of vegetable tissue and three kinds of animal tissue.

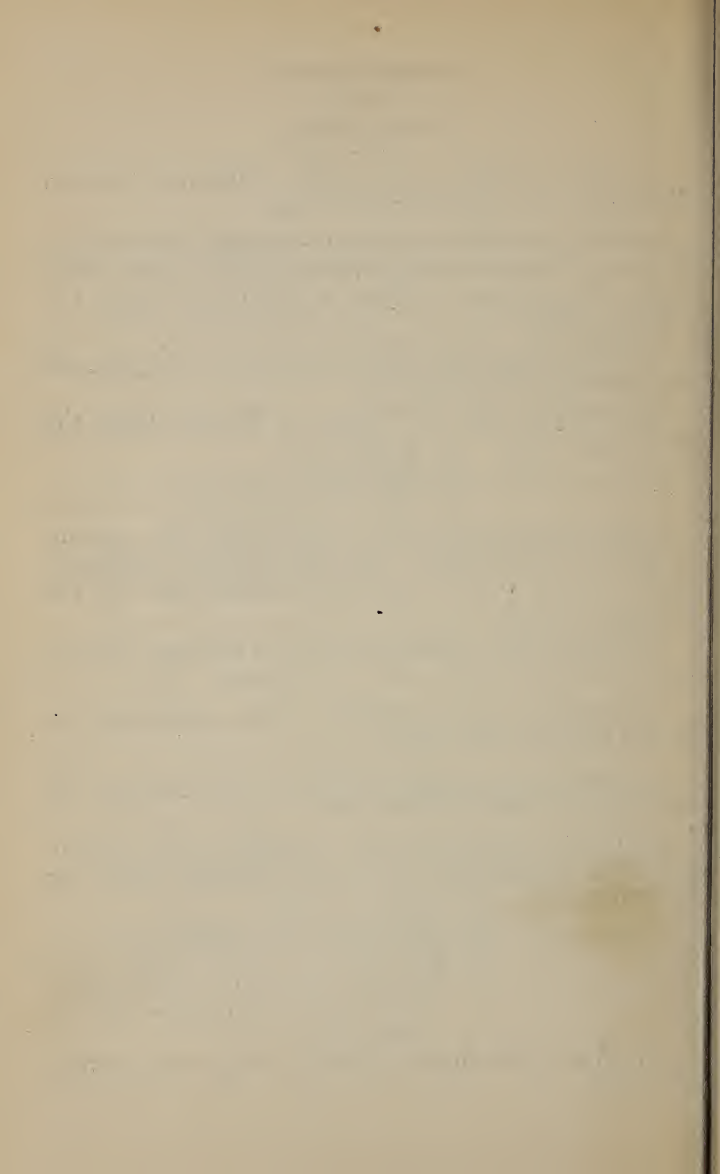
9. Give a list of the bones constituting the appendicular skeleton of man.

10. Describe the Nervous system of a Star-fish or Mollusc.

Natural Science.

SECOND PAPER.

1. State as fully as you can the differences between Vertebrate and Invertebrate animals.
2. Define the following terms;—Gastrula, Hydrorhiza, Polypite, Discontinuous gemmation, Blastoderm, Cœnosarc, Trophosome, Lantern of Aristotle, Umbo, Cephalothorax.
3. Give the general characters of (1) Protozoa, (2) Cœlenterata, (3) Orthoptera.
4. Describe fully one Insect or Mollusc under the following heads : (1) Morphology.
(2) Nutrition.
(3) Reproduction.
5. The principal minerals constituting rocks are combinations of three acids. Give the chemical formula of each acid and a list of the rocks characterized by the presence of each.
6. Classify and describe as fully as you can the various substances thrown out by volcanoes.
7. Describe (1) the chemical, (2) the mechanical action of underground water.
8. Classify the geological effects of earthquakes giving examples or explanations of each.
9. Give in tabular form the divisions of the Palaeozoic rocks and describe one of the divisions under the following heads : (1) Kinds of rocks.
(2) Distribution in Canada.
(3) Minerals and Fossils if any.
(4) Whether deposited in deep or shallow water and reasons for believing so.
10. How do Geologists ascertain the age of a stratum of rocks?



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History.

FIRST PAPER.

Answers to only 8 of the following questions required.

1. State the general characteristics of the Early Asiatic Kingdoms.

2. The history of early nations is preceded by a period mythical in its character. What historical facts may be deduced from that mythical period?

3. The Persians were of Aryan descent. With what branch of the Aryans were they most closely connected? When did they separate? Give any proof in support of your views, and deduce any conclusions.

4. To what original divisions of the Greek tribes did the Athenians, Spartans, and the Trojans belong?

5. What were the effects on the Greeks of that intercourse which sprang up with the Eastern nations, as the result of Alexander's conquest?

6. State the influence of Greece on Egypt under the Ptolemies.

7. The Greek States were isolated. The Roman from the first was a confederacy or league. Point out any advantages or any disadvantages of these conditions respectively.

8. Describe the Roman Comitia.

9. Mention the chief Agrarian laws enacted during the Republic, and state their general principles.

10. The battle of Cannæ resulted in the overwhelming defeat of the Roman army, yet that battle may be regarded as the turning point, after which the Carthaginian power declined. Account for this, and briefly describe the events of the war, subsequent to Cannæ.

11. What was the policy of Rome in regard to her Italian subjects—Latins, Samnites, &c.?

History.

SECOND PAPER.

Answers to only 8 of the following questions required.

1. Describe briefly the state of the Roman Empire at the time of the invasion of the Goths. Why was that invasion so slightly contested?

2. Give a short history of the Exarchate of Ravenna till it was won by Charlemagne.

3. State the circumstances of the transfer of the Imperial power from the Carlovingian to the German line.

4. Describe the territorial divisions of the Franks after their settlement in Gaul.

5. Why did the feudal system never acquire in Italy, in Spain or in England the power which it reached in France? State the circumstances in each of these countries.

6. Compare the Communes in France with the Republics of Italy and the Free Cities of Germany and of Spain.

7. Compare the English Parliaments with the Cortes of Spain and the States General of France.

8. The Royal Power in France became an Absolute Monarchy. Why could neither the Privileged Orders nor the Tiers Etat stay the progress of the Monarchy to this absolute power?

9. State the territorial divisions in England and the courts which corresponded to these divisions. How far were these courts representatives? These divisions as also the courts were ecclesiastical. Explain this.

10. What were Folkland, Bocland, Ethel, and Laenland?

11. Explain Frankpledge and Tenmentale.

12. What were the claims of Edward III. to the French crown? What were the terms of the treaty of Bretigni?

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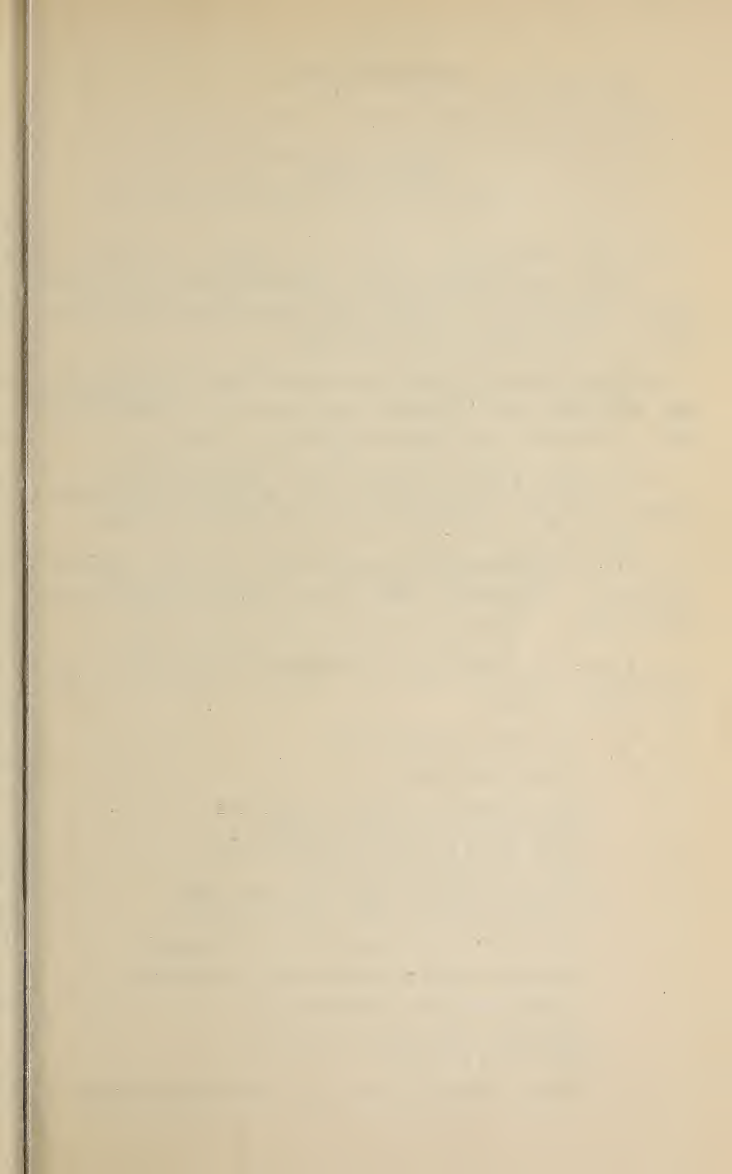
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Junior English.

FIRST PAPER.

1. State the periods of the introduction of the Romance element into English, and state the general character of the words of each period.

2. State the changes in the forms of the Language in the Wicliffe and Tyndale versions of the Bible, and their divergence from the Anglo-Saxon version.

3. Give the history of the third possessive pronoun neuter, and give examples of any changes in its use.

4. Give two examples of each of the following figures of speech:—Metaphor, Metonymy, Personification and Antithesis.

5. Point out and name the figures of speech in the following passages :

“ The ships plough the sea.”

“ In my mind’s eye.”

“ Me miserable ! Which way shall I fly
Infinite wrath and infinite despair ;
Which way I fly is hell, myself am hell ;
And in the lowest a lower deep,
Still threatening to devour me, opens wide ;
To which the hell I suffer seems a heaven.”

“ Every sweet has its sour, every evil its good.”

“ From the cradle to the grave life is a discipline.”

“ I prefer Brussels to Kidderminster.”

“ Men may come, and men may go,
But I go on for ever.”

“ Irving is always smooth, and Carlyle always pungent.”

5. Point out any faults in the following figures :

“ The orator drew forth their sympathies, and their purses.”

“ The seeds of discord were kindled.”

“ Go thou and like an executioner
Cut off the heads of the fast growing sprays.”

6. What is meant by Purity, Propriety, and Precision in the use of words ? Give examples.

7. What are the qualities of a good sentence ?

8. Explain the following passages from the Merchant of Venice :

“ And her sunny locks
Hung on her temples like a golden fleece ;
Which makes her seat of Belmont Colchos' strand,
And many Jasons come in quest of her.”

“ What talk you of the posy or the value ” of the ring.

“ Therefore thou gaudy gold
Hard food for Midas, I will none of thee.”

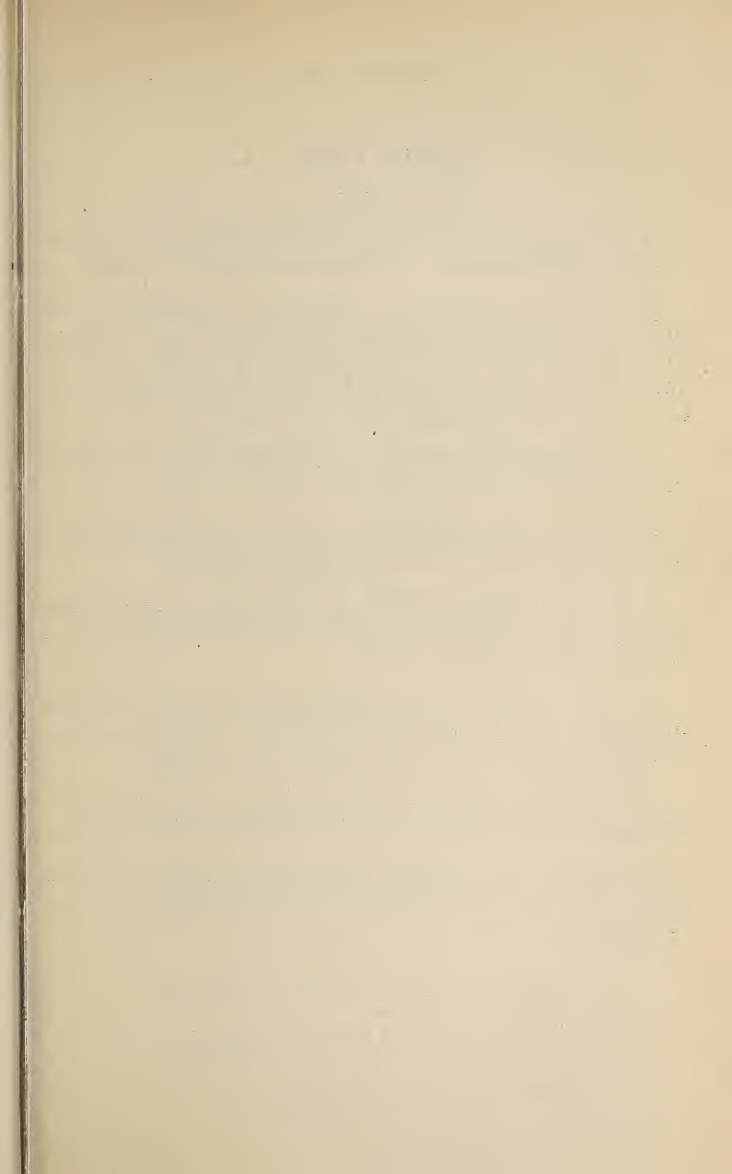
“ He plies the duke at morning and at night
And doth impeach the freedom of the State,
If they deny him justice.”

Junior English.

SECOND PAPER.

1. Quote the words of Portia when describing the qualities of mercy.
2. Write an Essay on one of the following subjects :
 - (a) Style—comparing the style of Addison, Macaulay, and Carlyle.
 - (b) The character of Portia in the Merchant of Venice.

THE HISTORY OF THE
REPUBLIC OF THE
UNITED STATES OF AMERICA
FROM THE FOUNDATION OF THE
NATION TO THE PRESENT
BY
JAMES M. SMITH
VOLUME I
THE FOUNDATION OF THE NATION
TO THE END OF THE
SEVENTEENTH CENTURY



Senior English.

FIRST PAPER.

1. Taine calls the Revival of Literature in England a Pagan Renaissance. Why does he call it Pagan?

2. Classify according to Gervinus' classification the following plays of Shakespeare: King Lear, Richard III., Measure for Measure, Comedy of Errors, As You Like It, Two Gentlemen of Verona, Troilus and Cressida, Othello, Tempest, Titus and Andronicus.

3. Compare the Literary characteristics of the Elizabethan and the Stuart periods.

4. What is the moral idea of life which Shakespeare develops in his comedies and his tragedies?

5. Schlegel says that Shakespeare's plays are so trustworthy that the truths of history may be learned from them. Criticise this assertion.

6. While Milton's sympathies were with the Puritans his tastes naturally inclined him to the Royalists. Criticise this, and give any proof of your views.

7. Show that Wordsworth's poetry is a virtual protest against the spontaneous or natural poetry of Scott.

8. Explain the following expressions taken from King Lear, the Merchant of Venice, and from L'Allegro and Il Penseroso :

" To whose young love
The vines of France and milk of Burgundy
Strive to be interest'd."

" For by the sacred radiance of the sun
The mysteries of Hecate and the Night
* * * * *

Here I disdain all my paternal care."

" I'll make a sop o' the moonshine of you ; draw,
you cullionly barber-monger, draw."

" You take vanity the puppet's part against the
royalty of her father ; draw, you rogue, or
i'll so carbonado your shanks"

" The wrathful skies
Gallow the very wanderers of the dark
And make them keep their caves."

" Keep out ; che vore ye, or ise try whether your
costard or my ballow be the harder."

(King Lear.)

" Then do but say to me what I shall do
That in your knowledge may by me be done
And I am prest unto it."

" I fear he will prove the weeping philosopher
when he grows old."

" In such a night
Troilus, methinks, mounted the Trojan walls
And sigh'd his soul towards the Grecian tents
Where Cressid lay that night."

" In such a night
Did Thisbe fearfully o'ertrip the dew
And saw the lion's shadow ere himself
And ran dismay'd away."

" In such a night
Medea gathered the enchanted herbs
That did renew old Æson."

(Merchant of Venice).

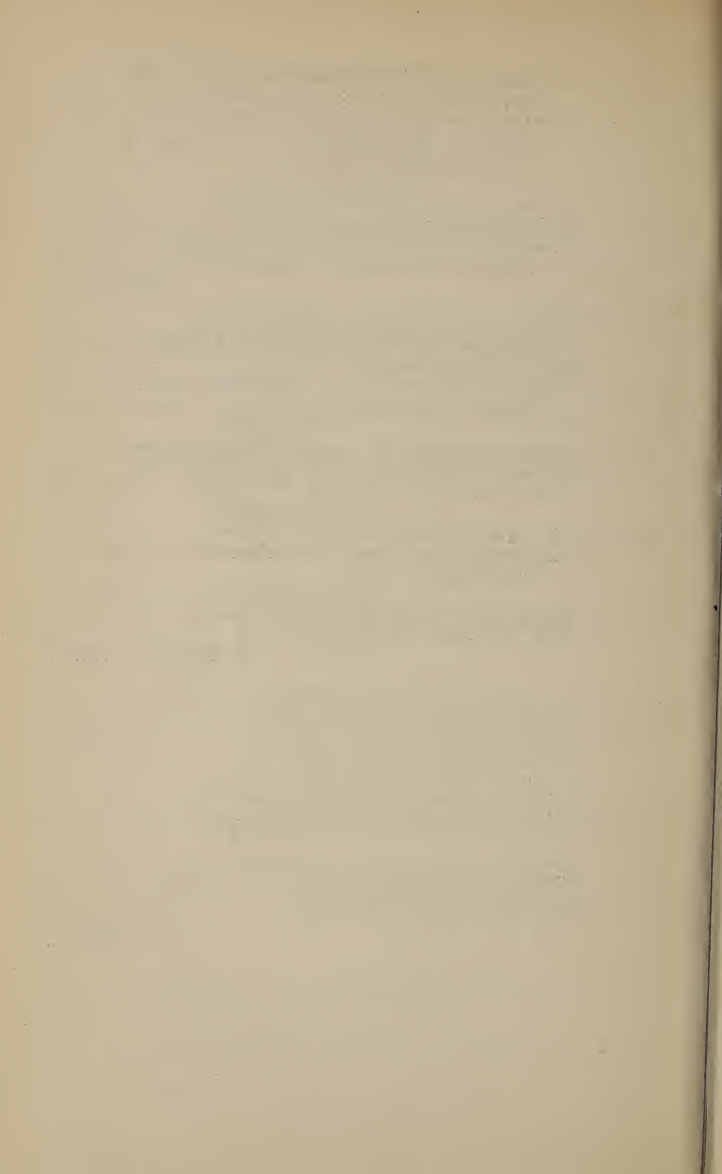
" In heaven yclep'd Euphrosyne
And, by men, heart-easing mirth ;
Whom lovely Venus, at a birth,
With two sister graces more,
To ivy-crowned Bacchus bore."

" But, O, sad virgin, that thy power
Might raise Musaeus from his bower

* * * * *

Or call up him that left half told
The story of Cambuscan bold,
Of Camball, and of Algarsife
And who had Canace to wife."

(Milton).



Senior English.

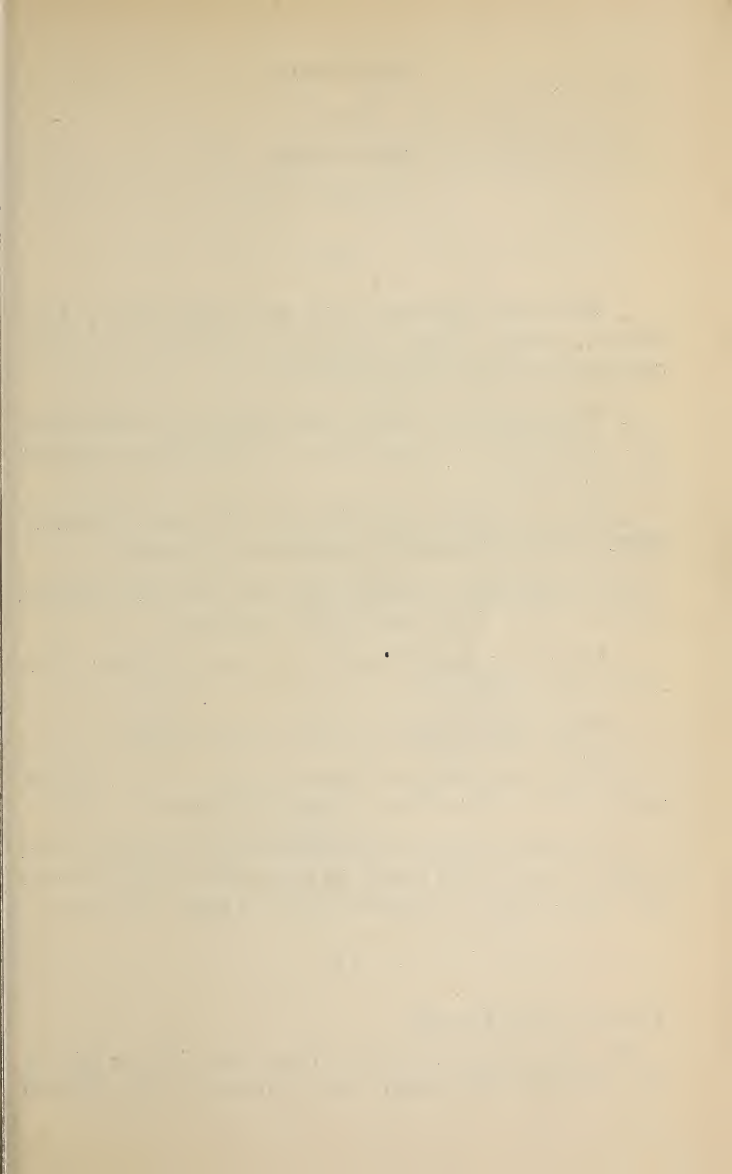
SECOND PAPER.

1. Quote Bassanio's soliloquy before the caskets, beginning :

"So may the outward shows beleast themselves,
The world is still deceived with ornament."

2. Write an Essay on any of the following subjects :

- (a) The excellencies and the defects of the Classical School of Poetry, and the influences which produced it.
- (b) The growth of the Romantic School, and its chief features.
- (c) Tennyson's Poetry.



Junior French.

FIRST PAPER.

I.

1. Write the feminine of the following nouns : *Juif, dindon, mulet, loup, compagnon, pêcheur, serviteur, gouverneur, tuteur, lion, empereur.*

2. Give examples of the three degrees of comparison and illustrate the comparative of inferiority, equality and superiority.

3. Form sentences to illustrate the use of demonstrative adjectives and demonstrative pronouns.

4. Illustrate by examples the use of *chacun, chaque, aucun, autrui, tel, quelque* and *la plupart.*

5. Give the principal parts of : *coudre, déchoir, dire, savoir* and *paître.*

6. With what verbs is *ne* used without *pas*?

7. Give examples to illustrate the use of : *parmi, entre, envers, hors, d'avec, d'entre, de dessous.*

8. Translate the following idioms into French : to act a play, to go at full speed, to keep one's word, to be on bad terms with, to come to blows, to sleep very late.

II.

Translate into French :

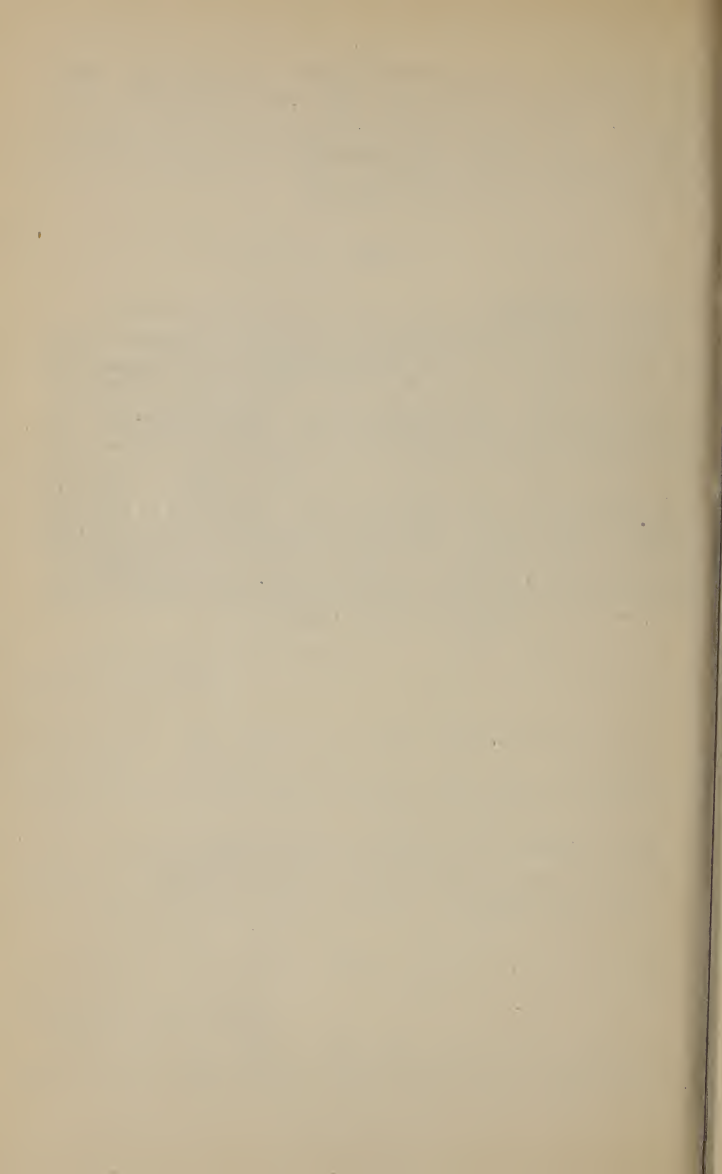
The camp was taken, and those who did not fall by the sword of the enemy were drowned in the Nile in

the attempt to escape to the fleet. Immediately after the battle Caesar advanced with his cavalry into the capital. The enemy received him and sued for peace ; and his troops, when they saw him returning as victor, welcomed him with boundless joy.

III.

Translate at sight :

Philippe le Bel est véritablement le premier roi moderne, le premier prince qui ait eu sur les droits illimités du pouvoir royal une conviction pleine et entière ; le premier aussi qui se soit comporté en conséquence dans toute occasion où il se trouvait être le plus fort. Ce n'est pas peut-être qu'il fût plus capable, plus intelligent que ses prédécesseurs, qu'il eût porté plus loin ses regards dans l'avenir et diviné ce qui devait être, mais un goût violent pour le despotisme, le caractère du tyran lui tinrent lieu de cette divination ; et puis il ne sut jamais ce que c'est que la conscience. Louis VIII et Philippe le Hardi étaient des gens scrupuleux (saint Louis surtout), qui se laissaient impressionner par les idées anciennes, et qui, en face des protestations de la féodalité, se demandaient si réellement les droits, prétendus par les seigneurs, n'étaient pas de vrais droits ; jamais Philippe le Bel ne ressentit ce genre d'inquiétudes.



Junior French.

SECOND PAPER.

I.

Translate :

Pendant que Colomb s'étudiait à séparer et à pacifier ces deux parties de la population, le roi Ferdinand, informé par ses ennemis des malheurs de l'île, les imputait à celui qui les guérissait. Colomb ayant demandé à la cour de lui envoyer un magistrat d'un rang élevé pour imposer par ses jugements l'autorité royale à ses compagnons indisciplinés, la cour lui envoya Bobadilla, homme intègre de mœurs, mais fanatique et indomptable d'orgueil. L'autorité mal définie dont il était investi par le décret royal le subordonnait à la fois et le faisait supérieur à tout autre pouvoir. En arrivant à Hispaniola, prévenu contre l'amiral, il le somma insolemment de comparaître en accusé devant lui, et, faisant apporter des chaînes, il ordonna aux soldats d'en charger les membres de leur général. Les soldats, accoutumés au respect et à l'amour de leur chef, rendu plus vénérable à leurs yeux par l'âge et par la gloire, hésitèrent et restèrent immobiles comme si on leur eût commandé un sacrilège. Mais Colomb, tendant de lui-même les bras aux fers que son roi lui envoyait, se laissa enchaîner aux pieds et aux mains par un de ses propres serviteurs, bourreau volontaire, vil stipendié de sa domesticité, nommé Espinosa, dont Las Casas a conservé le nom comme un type d'insolence et d'ingratitude.

Lamartine, Christophe Colomb.

1. Parse: *guérissait, envoya, comparaître, eût commandé, laissa.*

2. State the gender of *amour, malheur, bras.*

3. Distinguish between *de* and *par*—à la fois and tout en une fois.

4. Give the degrees of comparison of *mal*.

5. What is Hispaniola now called ?

II.

Translate :

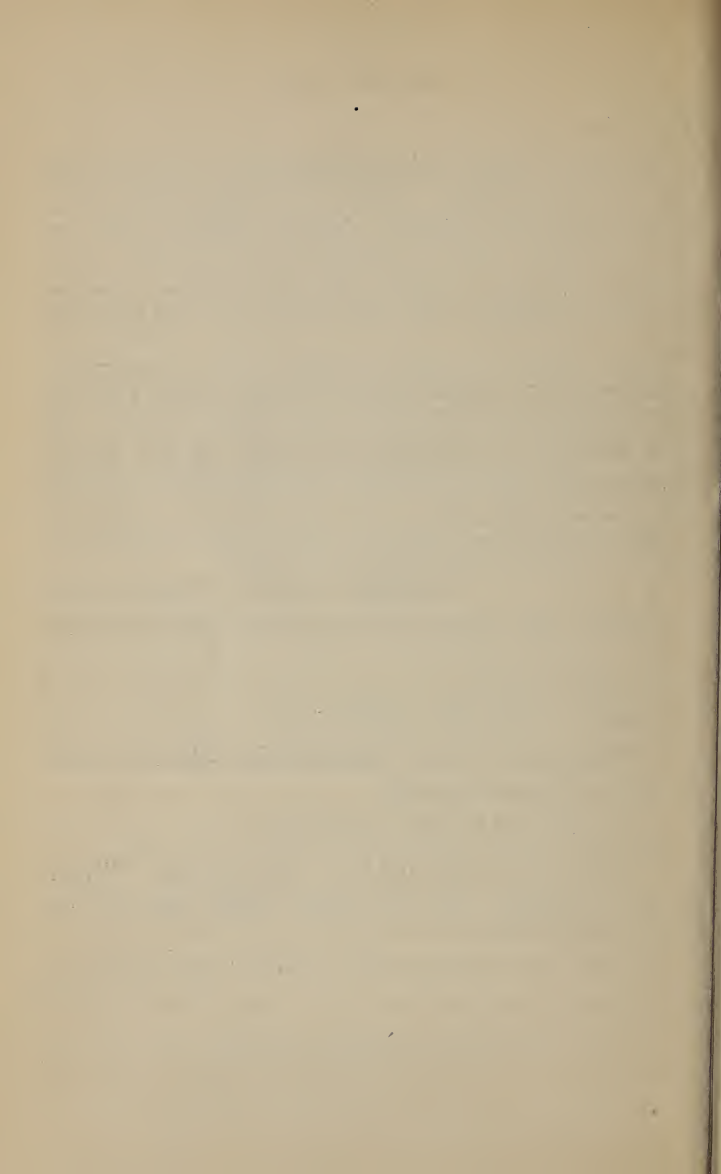
En rentrant à l'hôpital, après avoir bien diné et bu chacun notre bouteille de bon vin blanc à l'auberge de *la Grappe*, dans la rue de Tilly, nous apprîmes, Zimmer et moi, que nous irions coucher le soir même à la caserne de Rosenthâl. C'était une espèce de dépôt des blessés de Lutzen, lorsqu'ils commençaient à se remettre. On y vivait à l'ordinaire comme en garnison ; il fallait répondre à l'appel du matin et du soir. Le reste du temps on était libre. Tous les trois jours, le chirurgien venait passer sa visite, et quand vous étiez remis, vous receviez une feuille de route pour aller rejoindre votre corps.

On peut s'imaginer la position de douze à quinze cents pauvres diables, habillés de capotes grises à boutons de plomb, coiffés de gros shakos en forme de pots de fleurs, et chaussés de souliers usés par les marches et les contre-marches, pâles, minables, et la plupart sans le sou, dans une ville riche comme Leipzig. Nous ne faisons pas grande figure parmi ces étudiants, ces bons bourgeois, ces jeunes femmes riantes, qui, malgré toute notre gloire, nous regardaient comme des va-nu-pieds.

Toutes les belles choses que m'avait racontées mon camarade rendaient cette situation encore plus triste pour moi.

Erckmann-Chatrian, *Le Conscrit* de 1813.

1. Parse : *bu, apprîmes, irions, vivait, remis, receviez.*
2. Compare *bien*.
3. Give the feminine of *blanc, gros*.
4. Distinguish *dormir* from *coucher*—*dans la ville* from *à la ville* and *en ville*.
5. Account for the form *racontées*.
6. Why is *nu* indeclinable in *va-nu-pieds* ? When is *nu* declinable ? Mention other words used in the same way as *nu*.



Senior French.

FIRST PAPER.

I.

1. Write the feminine of the adjectives *net*, *secret*, *sculpteur*, *turc*, *complet*, *vengeur*, *meilleur*, and the masculine of *fausse*, *fraîche*, *cantatrice*, *tierce*.

2. Say anything you know about *on*, *le sien*, *aucun*, *quoi*, *dont*, *en*, *y*, *rien*.

3. What is the difference between *qui* and *que* as relatives ?

4. What is peculiar about the conjugation of reflexive verbs ?

5. How do you explain *ès* in *maître-ès-arts* ?

6. When is *pas* or *point* omitted in negative sentences ?

7. Explain the presence of *ne* in *Il écrit mieux qu'il ne parle*.

8. Translate the following idiomatic expressions :

(a) Il s'en est fallu beaucoup que son esprit ait été si grand que son cœur.

(b) Il y allait autant de son intérêt que de celui de M. le Prince.

(c) Il me parut tout autre qu'il n'était le matin.

(d) J'ai failli perdre l'état et vous l'avez sauvé.

(e) Elle a bien du fond d'esprit, mais encore plus le fin et le tour.

(f) La cause dont il s'agit est au-dessus de celle de la Ligue.

II.

1. Show that French comes from popular and not from literary Latin.

2. Give an account of the Strasburg Oaths.

3. Give the etymology of the following words, mentioning those that follow the rule, and those that do not : *sire, chanteur, mur, enfant, seigneur, amour, fruit, fils, raison, fil, fonds*.

4. Name the authors of the following works : Le Roman de la Rose, l'Institution chrétienne, Heptameron, Discours de la Méthode, Gil Blas, Émile, Histoire Naturelle, Lettres Provinciales.

5. Give an account of Montesquieu, and mention his principal works.

6. Mention the chief tragedies of Corneille and Racine and compare these authors.

III.

Translate into French :

A Chinese mandarin had been condemned to death for injustice in his province. His son, who was only fifteen years of age, went to the emperor to plead with him to be allowed to die instead of his father. The emperor, surprised at the action and touched by the affection of this noble lad, pardoned his father, and wished to bestow upon the son some personal marks of honour, in order that he might serve as an example to posterity ; but the boy refused to accept any distinction, saying that this would only renew the remembrance of his father's crime and be an enduring mark of disgrace in the eyes of both.

IV.

Translate at sight :

SAINT LOUIS.—Roi, il est le modèle des rois ; chrétien, il est le modèle de tous les hommes. Quel exemple pour nous ! il est humble dans le sein de la grandeur ; et nous, hommes vulgaires, nous sommes enflés de vanité et d'orgueil ! Il est roi, et il est humble ; c'est beaucoup pour les moindres particuliers d'être modestes ; mais quelle différence entre la modestie et l'humilité ! Saint Louis secourt les pauvres, tous les païens l'ont fait ; mais il s'abaisse devant eux, il est le premier des rois qui les ait servis. C'est là ce que la morale païenne n'avait pas seulement imaginé. Toutes les vertus humaines étaient chez les anciens : les vertus divines ne sont que chez les chrétiens. Voir d'un même œil la couronne et les fers, la santé et la maladie, la vie et la mort ; faire des choses admirables et craindre d'être admiré ; n'avoir dans le cœur que Dieu et son devoir ; n'être touché que des maux de ses frères ; être toujours en présence de son Dieu ; n'entreprendre, ne réussir, ne souffrir, ne mourir que pour lui : voilà Saint Louis, voilà le héros chrétien ; toujours grand et toujours simple, toujours s'oubliant lui-même.

Senior French.

SECOND PAPER.

I.

Translate :

LE VIEIL HORACE.

Nous venez-vous, Julie, apprendre la victoire ?

JULIE.

Mais plutôt du combat les funestes effets,
Rome est sujette d'Albe, et vos fils sont défaits.
Des trois les deux sont morts, son époux seul vous reste.

LE VIEIL HORACE.

O d'un triste combat effet vraiment funeste !
Rome est sujette d'Albe, et pour l'en garantir
Il n'a pas employé jusqu'au dernier soupir !
Non, non, cela n'est point, on vous trompe, Julie ;
Rome n'est point sujette, ou mon fils est sans vie :
Je connais mieux mon sang, il sait mieux son devoir.

JULIE.

Mille, de nos remparts, comme moi l'ont pu voir.
Il s'est fait admirer tant qu'ont duré ses frères ;
Mais, comme il s'est vu seul contre trois adversaires,
Près d'être enfermé d'eux, sa fuite l'a sauvé.

Corneille, Horace.

1. Parse *apprendre*, *connais*, *sait*.
2. Distinguish *plutôt* from *plus tôt*, *près* from *prêt*, *savoir* from *connaître*.
3. Give the positive and superlative of *mieux*.
4. Mention the etymology of *mais*, *époux*, *soupir*, *point*, *comme*, *sauvé*.

II.

Translate :

ULYSSE.

Non, votre fille vit, et les dieux sont contents.
Rassurez-vous : le ciel a voulu vous la rendre.

CLYTEMNESTRE.

Elle vit ! Et c'est vous qui venez me l'apprendre !

ULYSSE.

Oui, c'est moi qui longtemps, contre elle et contre vous,
Ai cru devoir, madame, affermir votre époux ;
Moi qui, jaloux tantôt de l'honneur de nos armes,
Par d'austères conseils ai fait couler vos larmes ;
Et qui viens, puisque enfin le ciel est apaisé,
Réparer tout l'ennui que je vous ai causé.

CLYTEMNESTRE.

Ma fille ! Ah, prince ! O ciel ! je demeure éperdue.
Quel miracle, seigneur, quel dieu me l'a rendue ?

Racine, Iphigénie.

1. Parse *vit, cru*.
2. *Apprendre*. What is noteworthy in the meaning of this word ?
3. Mention the etymology of *madame, larmes*.
4. How does the story of Iphigenia as told by Racine differ from that told by the Greek dramatists ?

III.

Translate :

ALZIRE.

Chère Émire, est-ce toi ? qu'a-t-on fait ? qu'as-tu vu ?
Tire-moi, par pitié, de mon doute terrible.

ÉMIRE.

Ah ! n'espérez plus rien : sa perte est infaillible.
Des armes du soldat qui conduisait ses pas
Il a couvert son front, il a chargé son bras.
Il s'éloigne : à l'instant le soldat prend la fuite :
Votre amant au palais court et se précipite ;
Je le suis en tremblant parmi nos ennemis,
Parmi ces meurtriers dans le sang endormis,
Dans l'horreur de la nuit, des morts, et du silence.
Au palais de Gusman je le vois qui s'avance ;
Je l'appelais en vain de la voix et des yeux ;
Il m'échappe ; et soudain j'entends des cris affreux :
J'entends dire : "Qu'il meure !" on court, on vole aux armes.
Retirez-vous, madame, et fuyez tant d'alarmes ;
Rentrez.

ALZIRE.

Ah ! chère Émire, allons le secourir.

ÉMIRE.

Que pouvez-vous, madame, ô ciel ?

ALZIRE.

Je puis mourir.

Voltaire, Alzire.

1. Parse : *conduisait, a couvert, suis, meure, puis.*
2. Mention the etymology of *rien, soldat, bras, chère, alarmes.*
3. State the double plurals of *œil* and *ciel* with their meanings.
4. *Votre amant.* Give his name.

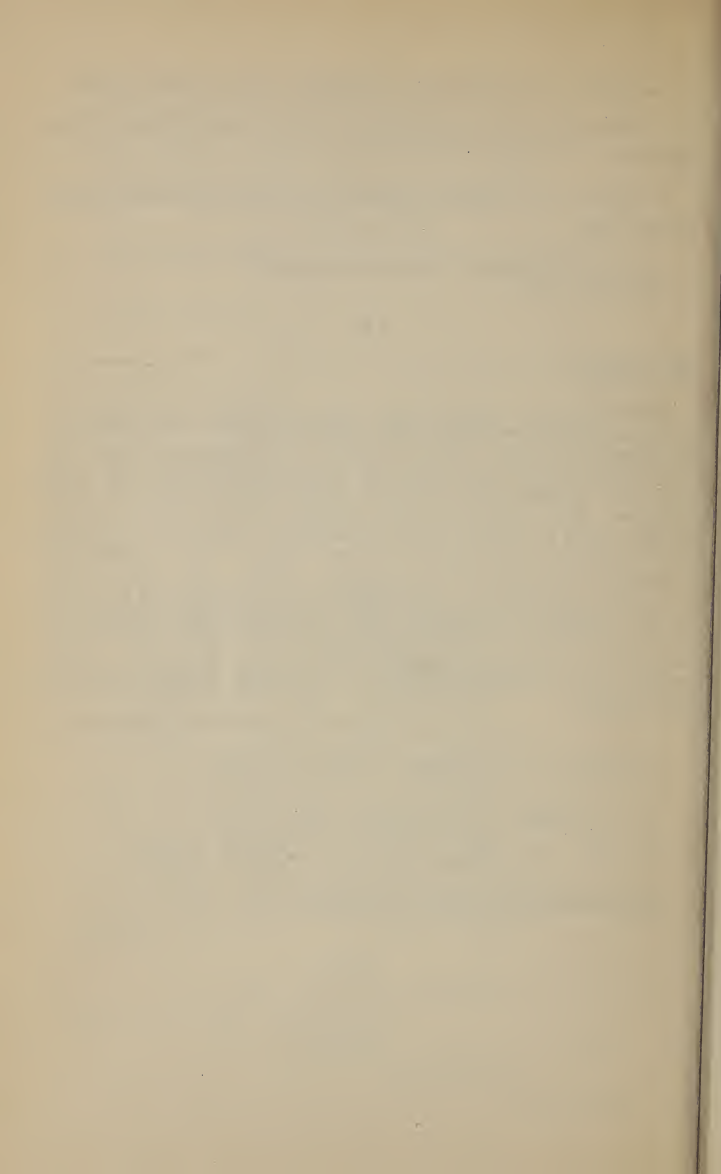
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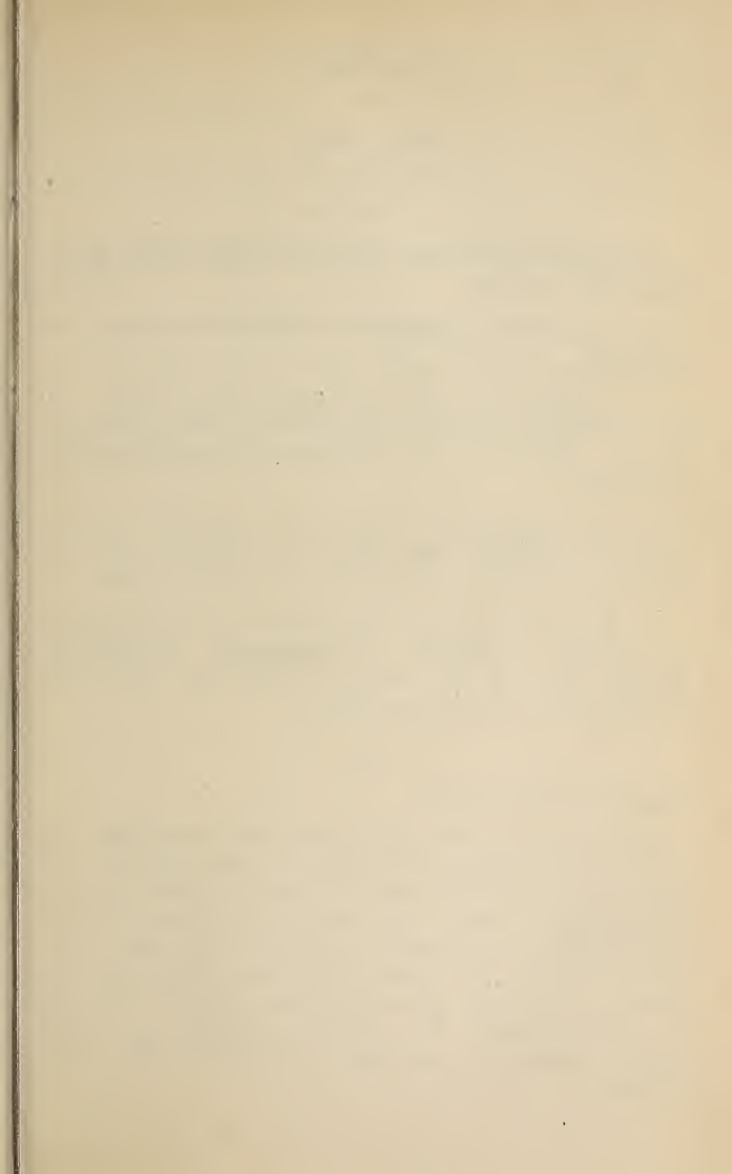
Translate :

L'ignorance de celui qui gouverne aujourd'hui ne lui laisse ni assez de vue ni assez de force pour régler les poids de cette horloge. Les ressorts s'en sont mêlés. Ce qui n'était que pour modérer le mouvement veut le faire, et je conviens qu'il le fait mal, parce qu'il n'est pas lui-même fait pour cela : voilà où gît le défaut de notre machine. Votre Altesse la veut redresser, et avec d'autant plus de raison, qu'il n'y a qu'elle qui en soit capable ; mais pour la redresser, faut-il se joindre à ceux qui la veulent rompre ? Vous convenez des disparates du Cardinal ; vous convenez qu'il ne pense qu'à établir, en France, l'autorité qu'il n'a jamais connue en Italie. S'il y pouvait réussir, serait-ce le compte de l'État, selon ses bonnes et véritables maximes ? Serait-ce celui des princes du sang en tous sens ? Mais, de plus, est-il en état d'y réussir ? N'est-il pas accablé de la haine publique et du mépris public ? Le Parlement n'est-il pas l'idole des peuples ?

Louis XIV. and his Contemporaries.

1. Parse : *gît, joindre, veulent, connue.*
2. *Cardinal.* Give an account of him.
3. *Elle.* To whom does this pronoun refer ?
4. Give an account of De Retz.





Junior German.

FIRST PAPER.

I.

1. Decline in the sing. and plur. : Vote, Name, Bauer, Feld, Herz, and Lied.

2. Illustrate by examples the different declensions of adjectives.

3. (a) Decline in both numbers : ich, du and er. (b) Give examples, in sentences containing verbs, of demonstrative adjectives, and of relative and demonstrative pronouns.

4. Give examples of verbs with separable and inseparable prefixes; and show, by examples, how the meaning of verbs may be affected by such prefixes.

5. Write notes on the signification and composition of *auslassen*, *hineingehen*, *herunterkommen*, *hinaufsteigen*, *Andruck*, *Eindruck*, and compare the last two with their corresponding Latin equivalents.

II.

Translate into German :

He sat down at the table under the linden trees, got the servant to bring him a glass of wine and said: "It occurs to me that the squire's horse is worth one hundred dollars in cash. As I need such a horse I think I had better go immediately to his place and make a bargain for it." The horse dealer now hears some one coming. He looks up and is much pleased as he sees the village squire, the squire's daughter and Miss Lisbeth coming in a carriage on the other side of the orchard.

III.

Translate into English :

(a) Es liegt mir aber nicht viel daran.

(b) Da thun Sie mir groß Unrecht.

(c) So ist es nothwendig daß ich mich der Arbeit in Person unterziehe.

(d) Es freut mich daß Sie die Sache so ansehen.

(e) Sind Sie mit der blonden Lisbeth zusammengetroffen?

(f) Er sah daß die Prügel nicht ihm zugebracht waren.

(g) Ich lasse mir es nicht nehmen.

Junior German.

SECOND PAPER.

I.

Translate :

Ein schönes Mädchen in einfachem Gewande, den Strohhut über den Arm gehängt, kniete vor der Blume, hielt deren Stengel zärtlich, wie den Hals des Geliebten, umschlungen, und blickte, die holdeste Freude der Ueberraschung in den Augen, tief in einen der rothen Kelche. Sie mußte, während der Jäger zurückgebeugt lag, leise herbeigekommen sein. Ihn sah sie nicht; die Klippen verdeckten ihn, und er hütete sich wohl, eine Bewegung zu machen, welche ihm die Erscheinung verscheuchen konnte. Aber, als sie nach einer Weile athmend von dem Kelche emporschaute, fiel ihr Blick seitwärts in das Wasser, und sie gewahrte den Schatten eines Mannes. Nun sah er sie sich verfärben, die Blume aus ihren Händen entlassen, übrigens aber regungslos auf den Knien bleiben. Er erhob sich mit halbem Leibe zwischen den Klippen, und vier junge Augen trafen einander. Nur einen Augenblick! denn alsobald stand das Mädchen, Blut im Antlitz, auf, warf den Strohhut über das Haupt und war mit drei raschen Schritten hinter den Büschen verschwunden.

Immerman, Der Oberhof.

1. Parse gehängt, hielt, umschlungen, lag, fiel, gewahrte, erhob, trafen, warf.

2. Mention the gender of Gewande, Stengel, Augen, Kelche, Klippen, Antlitz, Schritten, Büschen.

3. Account for the accusative in den Strohhut (line 1) and den Augenblick.

4. Deren. Parse this, and give the other forms of the same case.

5. Herbeigekommen sein. Account for the auxiliary. What is the difference between *her* and *hin*?

6. Während—lag, Ihn sah sie nicht. Account for the order of the verbs.

7. Give verbs etymologically related to *gehängt*, *gebeugt*, *lag*, *fiel*.

II.

Translate :

Burleigh. Ihr hörtet
Die Klagartifel an, ließt euch darüber
Bernehmen vor Gerichte —
Maria. Ja, ich habe mich
Durch Hattons arge List verleiten lassen,
Bloß meiner Ehre wegen und im Glauben
An meiner Gründe siegende Gewalt,
Ein Ohr zu leihen jenen Klagepunkten
Und ihren ungrund darzuthun — Das that ich
Aus Achtung für die würdigen Personen
Der Lords, nicht für ihr Amt, das ich verwerfe.

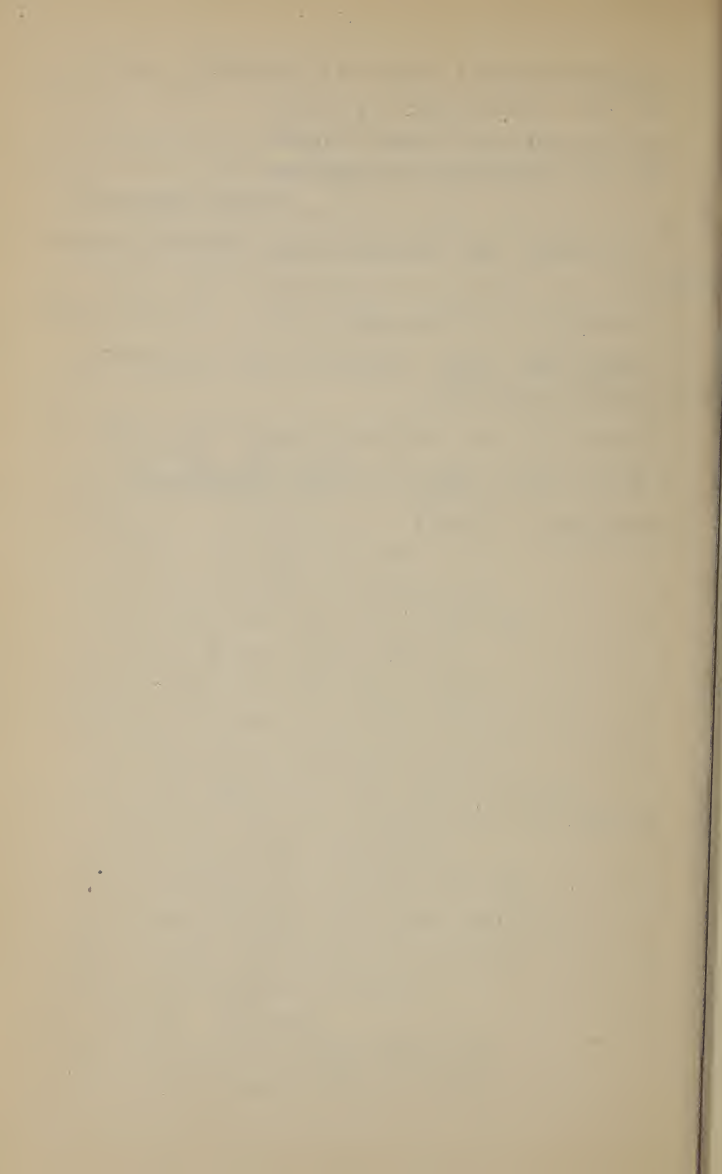
Burleigh. Ob ihr sie annerkennt, ob nicht, Mylady,
Das ist nur eine leere Förmlichkeit,
Die des Gerichtes Lauf nicht hemmen kann.
Ihr athmet Englands Lust, genießt den Schutz,
Die Wohlthat des Gesetzes, und so seid ihr
Auch seiner Herrschaft unterthan!

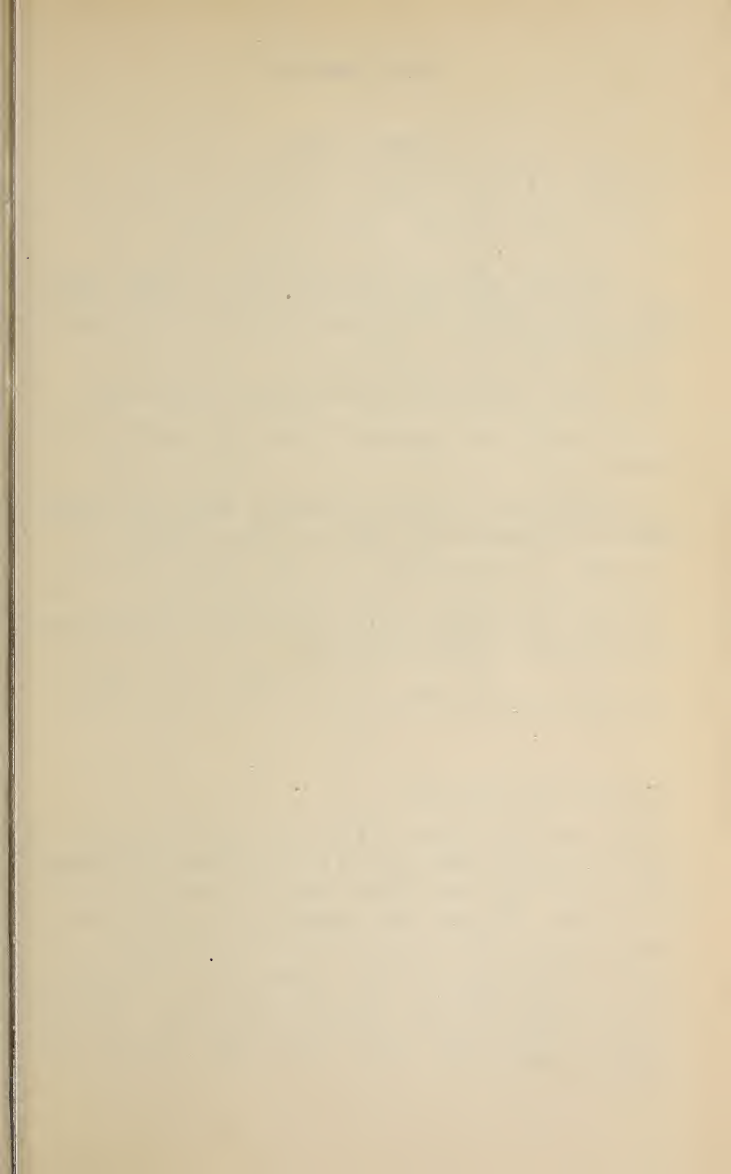
Maria. Ich athme
Die Lust in einem englischen Gefängniß.
Heißt das in England leben, der Gesetze

Wohlthat genießen? Kenn' ich sie doch kaum.
Nie hab' ich eingewilligt, sie zu halten.
Ich bin nicht dieses Reiches Bürgerin.
Bin eine freie Königin des Auslands.

Schiller, Maria Stuart.

1. Parse hörtet, ließt, vernehmen, leihen, verwerfe, genießt, weißt.
2. Account for the form lassen (v. 5.)
3. Meiner Ehre wegen. Mention other prepositions that govern the genitive.
4. Explain the case and government of euch (v. 2.)
5. Write notes on ihr (v. 1), Lords, des Auslands.
6. Gefängniß. Where?





Senior German.

FIRST PAPER.

I.

1. Give the gen. sing. and nom. plur. of *Land, Mann, Bad, Haupt, Fluch*. State also the gender and meaning of these nouns.
2. When do adjectives take the termination *en* ?
3. Mention some general cases of absence of the Article.
4. Explain the syntax of *stehenden Fußes, des Abends, heiße Thränen weinen, Er schläft den ganzen Morgen*.
5. When is *zu* omitted before the infinitive ?
6. Give an account of the normal, the inverted and the dependent order of the verb.
7. Give rules for the use of the Subjunctive Mood.

II.

Translate into German :

The new king Henry VIII. was a handsome youth of eighteen, highly educated and accomplished ; but though he gave fair promise, Henry was of a fierce and tyrannical nature. Yet he had a regard for the mere letter of the law, even while he bent the law to his caprice. To satisfy the revenge of those whom they had injured, Empson and Dudley were beheaded on a frivolous charge of high treason, and thus, though bad men, they suffered unjustly for crimes which they had not committed.

III.

Translate at sight :

Wenn die Stadt Frankfurt Bedenken getragen hatte, sich den Schweden zu unterwerfen, so war es bloß aus Furcht vor dem Kaiser geschehen; ihre eigene Neigung ließ die Bürger keinen Augenblick zweifelhaft zwischen dem Unterdrücker der deutschen Freiheit und dem Beschützer derselben. Die drohenden Zurüstungen, unter welchen Gustav Adolph ihre Erklärung jetzt forderte, konnten die Strafbarkeit ihres Abfalls in den Augen des Kaisers vermindern und den Schritt, den sie gern thaten, durch den Schein einer erzwungenen Handlung beschönigen. Jetzt also öffnete man dem König von Schweden die Thore, der seine Armee in prachtvollem Zuge und bewundernswürdiger Ordnung mitten durch diese Kaiserstadt führte. Sechshundert Mann blieben in Sachsenhausen zur Besatzung zurück; der König selbst rückte mit der übrigen Armee noch an demselben Abend gegen die Mainzische Stadt Höchst an, welche vor einbrechender Nacht schon erobert war.

Schiller, *Thirty Years' War*, B. III.

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I.

Translate :

Ein Auenturier ohne Geld, dem man selbst die rechtmäßige Geburt streitig machte, hatte sich zum Vertheidiger eines Königs aufgestellt, den einer seiner nächsten Verwandten zu Grunde richtete und der Vater seiner Gemahlin im Stich ließ. Ein regierender Prinz begab sich seiner Länder, die er ruhig beherrschte, um für einen Andern, der ihm fremd war, das ungewisse Glück des Krieges zu versuchen. Ein neuer Glücksritter, an Staaten arm, desto reicher an glorreichen Ahnen, übernimmt nach ihm die Vertheidigung einer Sache, welche jener auszuführen verzweifelte. Herzog Christian von Braunschweig, Administrator von Halberstadt, glaubte dem Grafen von Mansfeld das Geheimniß abgelernt zu haben, eine Armee von zwanzigtausend Mann ohne Geld auf den Beinen zu erhalten. Von jugendlichem Uebermuthe getrieben und voll Begierde, sich auf Kosten der katholischen Geistlichkeit, die er ritterlich haßte, einen Namen zu machen und Beute zu erwerben, versammelte er in Niedersachsen ein beträchtliches Heer, welchem die Vertheidigung Friedrich's und der deutschen Freiheit den Namen leihen mußte. Gottes Freund und der Pfaffen Feind war der Wahlspruch, den er auf seinen Münzen von eingeschmolzenem Kirchsilber führte, und dem er durch seine Thaten keine Schande machte.

1. Parse begab, übernimmt, erhalten, getrieben, erwerben, leihen, eingeschmolzenem.
2. Account for the case of dem in dem man selbst, etc.
3. To whom is reference made in Ein Aventurier, eines Königs, der Vater seiner Gemahlin, Ein regierender Prinz?
4. Decline through all cases of the singular der Graf von Mannsfeld.
5. Give a brief account of the war of the Palatinate.

II.

Translate :

Leonore. Gar freundliche Gesellschaft leistet uns
 Ein ferner Freund, wenn wir ihn glücklich wissen.
 Und es gelingt, ich sehe dich beglückt.
 Du wirst von hier nicht unzufrieden gehn.
 Der Fürst befaß's ; Antonio sucht dich auf.
 Er tadelt selbst an sich die Bitterkeit,
 Womit er dich verlegt. Ich bitte dich,
 Nimm ihn gelassen auf, so wie er kommt.

Tasso. Ich darf in jedem Sinne vor ihm stehn.

Leonore. Und schenke mir der Himmel, lieber Freund,
 Noch eh' du scheidest, dir das Aug' zu öffnen,
 Daß Niemand dich im ganzen Vaterlande
 Verfolgt und haßt, und heimlich drückt und neckt !
 Du irrst gewiß, und wie du sonst zur Freude
 Von Andern dächtest, leider dächtest du
 In diesem Fall ein seltenes Gewebe,
 Dich selbst zu kränken. Alles will ich thun,
 Um es entzwei zu reißen, daß du frei
 Den schönen Weg des Lebens wandeln mögest.
 Leb' wohl ! Ich hoffe bald ein glücklich Wort.

Goethe, Tasso.

1. Parse wissen, gelingt, befehl, bitte, darf, dachtest.
2. Supply the proper conjunction with es gelingt.
3. Verleßt. Account for this form.
4. Leider dachtest du. Why is the verb in this order?
5. Ein glücklich Wort. Give the proper form of the adjective.



Pass Papers,

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Junior Hebrew.

1. Translate (1) Gen. xxvii., 27-29.

(2) 1 Sam. i. 22-24.

(3) Ps. xcvi. 7-12.

2 Analyse (1) גִּרְיָ (2) בְּמַתְעֵתָע (3) מִגֵּיעַ (4) וַיִּצֶק

(5) אִמְתָּךְ (6) וַתִּינֶק

3. What is meant by רֵאִים Ps. xcii. 11 ? Shew that it is not a unicorn, and specially not a rhinoceros.

4. How do you reconcile Ps. xcii. 14 with Deut. xvi. 20, Thou shalt not plant thee a grove of any trees near unto the altar of the Lord ? (A.V.)

5. Which of the translations of מַ Gen. xxvii. 39 do you prefer ? Give your reasons.

6. Is the suffix in אֲבִי Gen. xxvii. 41 subjective or objective ? . Give your reasons.

7. Where were (1) Shiloh, (2) Ramah, (3) Beersheba, (4) Padan Aram ?

8. Shew that Gen. xxviii. 18 does not countenance the worship of Baitylia.

9. Derive the names of the four cardinal points. Gen. xxviii. 14.

10. Where does the apodosis begin, Gen. xxviii. 20-22 ? Give your reasons.

11. Give a paradigm of

(1) pret. Hophal, סָבַב

(2) fut. Niphal, קוּם

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1. Translate (1) Lev. xxii. 21–23.

(2) Deut. i. 33–36.

(3) Ps. lxxvi. 2–6.

2. Analyse (1) יְבֻלָּה (2) יָשׁוּר (3) שִׁבְתָּ

(4) יָבִתוּ (5) עֵבֶת (6) וּבְקִצְרֵכֶם

3. What were the sacred seasons of the seventh month, and what was the design of each?

4. Why were the sacrificial animals to be unblemished?

5. Why was a cow or ewe not to be killed on the same day with her young?

6. Why was the thank-offering to be wholly eaten on the day it was offered?

7. Shew the points of distinction between the pass-over and the feast of unleavened bread.

8. Why probably were the Ephraimites the ruling tribe for a time?

9. Answer the objections to the Mosaic authorship of Deuteronomy drawn from

(1) the expression “beyond Jordan,” i. 1, 5.

(2) the ethnographical notices in ch. i.

10. Give the different forms of the personal pronoun (1) 1st sing., (2) 1st plur., (3) 2nd plur. fem., and state the order of their frequency.

11. In what persons of the future do the apocopated and paragoric forms respectively occur?

12. Where were (1) the Arabah, (2) Kadesh-Barnea, (3) Lebanon, (4) Horeb, (5) Eziongeber, (6) the river Zered?

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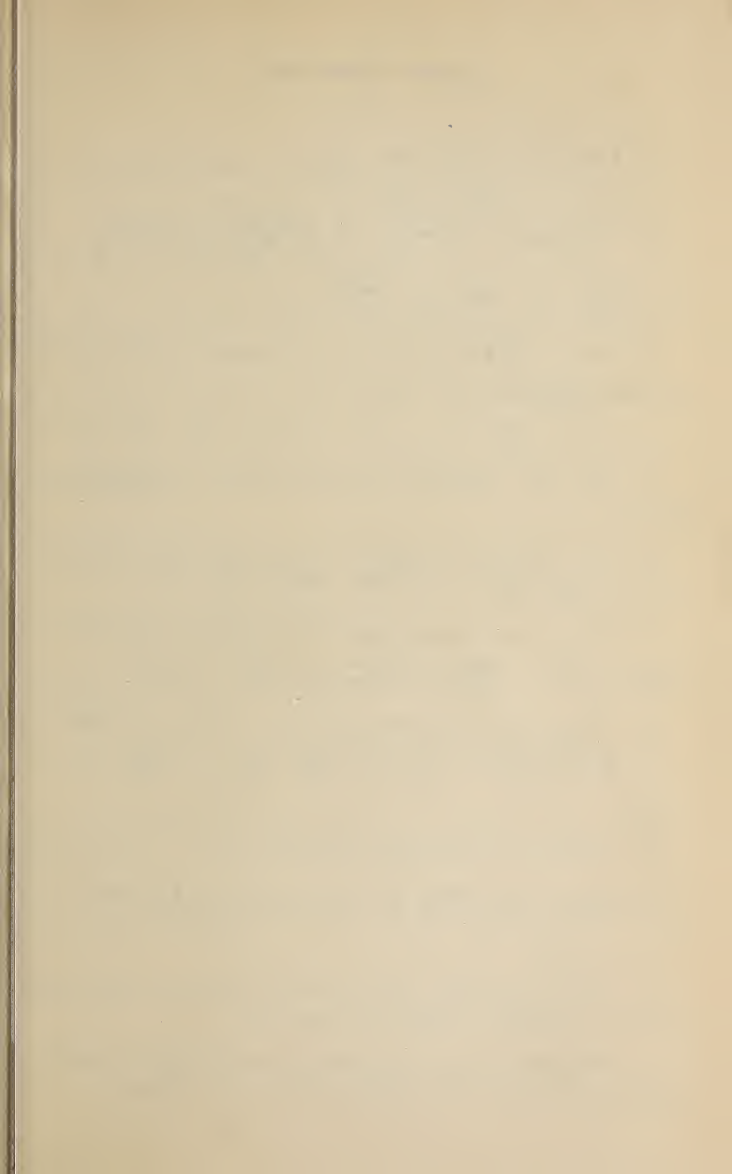
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1. Translate (1) Is. xlv. 5-11.
(2) Ps. cxiv. 1-7.
2. Analyse (1) וַיֵּאָתֶינָן (2) תִּשְׁתַּע (3) לְמִוְרָג
(4) אֲשֶׁם (5) וַיֵּאֵת (6) שְׂפִיִּים
3. Why is צִיּוֹן Is. xl. 9 to be regarded as the object not the subject?
4. How is יִיגַע Is. xl. 28 consistent with vii. 13?
5. Give the different interpretations of מִשְׁלָם Is. xlii. 19.
6. What argument against the exilic date of Isaiah xlii. is suggested by בַּחֲוָרִים הִפַּח הַפֶּה verse 22?
7. What Greek or Latin words seem connected in origin with (1) כָּוָה (2) כָּלָא (3) אָרֶן (4) עֵיט?
8. What is the difference between רַחֵץ and כָּבַס?
9. What kind of cry does רִנָּה with a suffix denote?
10. What is remarkable about Ps. cx.?
11. Shew that אֶרְנִי Ps. cx. 5 refers to Jehovah?
12. Explain Ps. cxiv. 4.
13. What probably was the hymn sung by our Lord and the apostles at His last passover?
14. What are the two principal conditional conjunctions, and what is the difference between them?

Chaldee.

1. Translate Dan. ii. 40-49.
2. Analyse (1) **הַזְמַנְתָּן** keri and kethib, (2) **יִרְכָּתֶהּ**
- 3) **וּרְמִי** (5) **לְהִיטִיָּה** (4) **חֲרוּהִי**
3. What prophet repeats the substance of the doxology ii. 20?
4. Why probably is the name Belteshazzar introduced ii. 26?
5. How may the absence of Daniel's name iii. 12 be accounted for?
6. Explain ii. 43.
7. Give a paradigm of
 - (1) the personal pronoun.
 - (2) the demonstrative pronoun.
8. State the three significations of Paël.
9. Give (1) the feminine terminations of nouns.
 - (2) the masc. and fem. pl. terminations of nouns.
10. For what Hebrew letters are **ל, ע, א, ט, ת, ר** substituted?
11. State fourteen grammatical differences between Hebrew and Chaldee.

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Junior Divinity.

FIRST PAPER.

1. Compare the non-Christian religions with Christianity, pointing out their original fundamental ideas, the secret of their power, and their persistence respectively.

2. Sketch the History of the O. T. Canon.

3. What are the sources of the O. T. text?

4. What are the main positions of the new Criticism with regard to the History of Israel, and on what evidence are those positions based? Criticise them.

5. Name the prophets of Israel from the 10th to the 4th Century B.C., in their historical order, and state briefly the nature of their work.

6. What codes of law are incorporated in the Pentateuch?

Junior Divinity.

SECOND PAPER.

1. What evidence, external and internal, does the Book of Proverbs supply with regard to its composition, nature, and aim?

2. What is the teaching of the Book of Job?

3. What do we know of the Composition of the Psalter, and what is its relation to the historical and prophetic books?

4. What is the key-thought of O. T. Scripture? How is it related to Christianity?

5. What is meant by the historical as distinguished from the speculative significance of the Person of Christ?

6. Describe the character of Christ, and His relations to the past and the future, to God and to man.



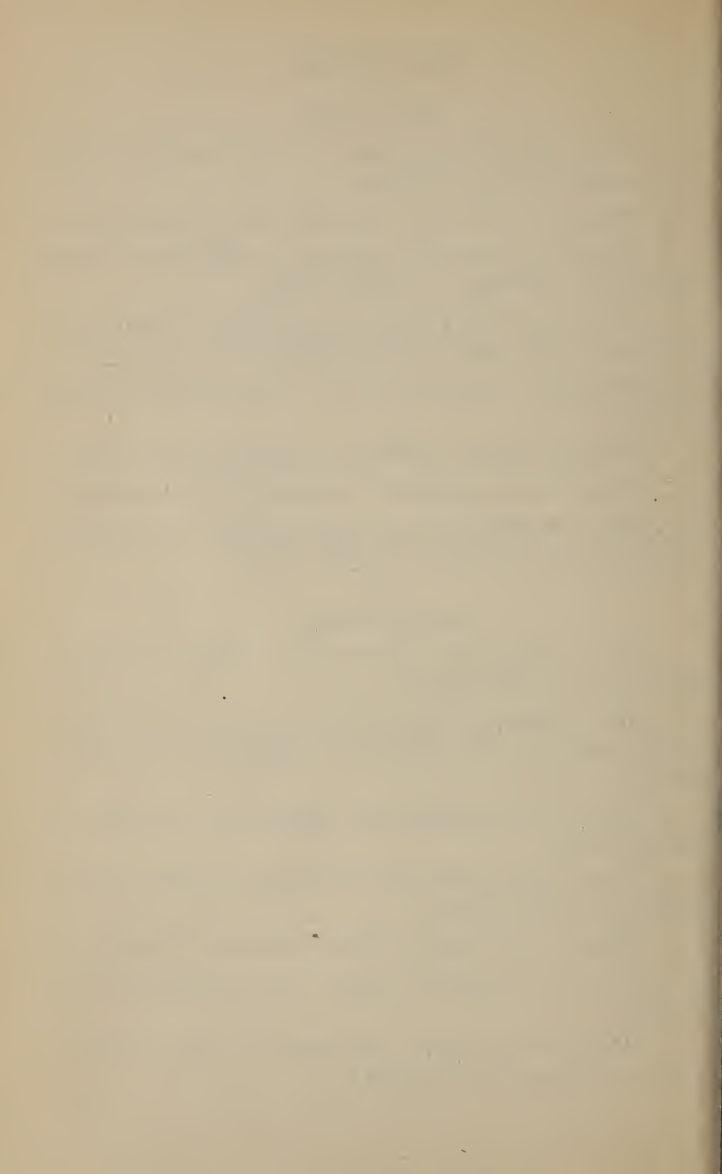
Senior Divinity.

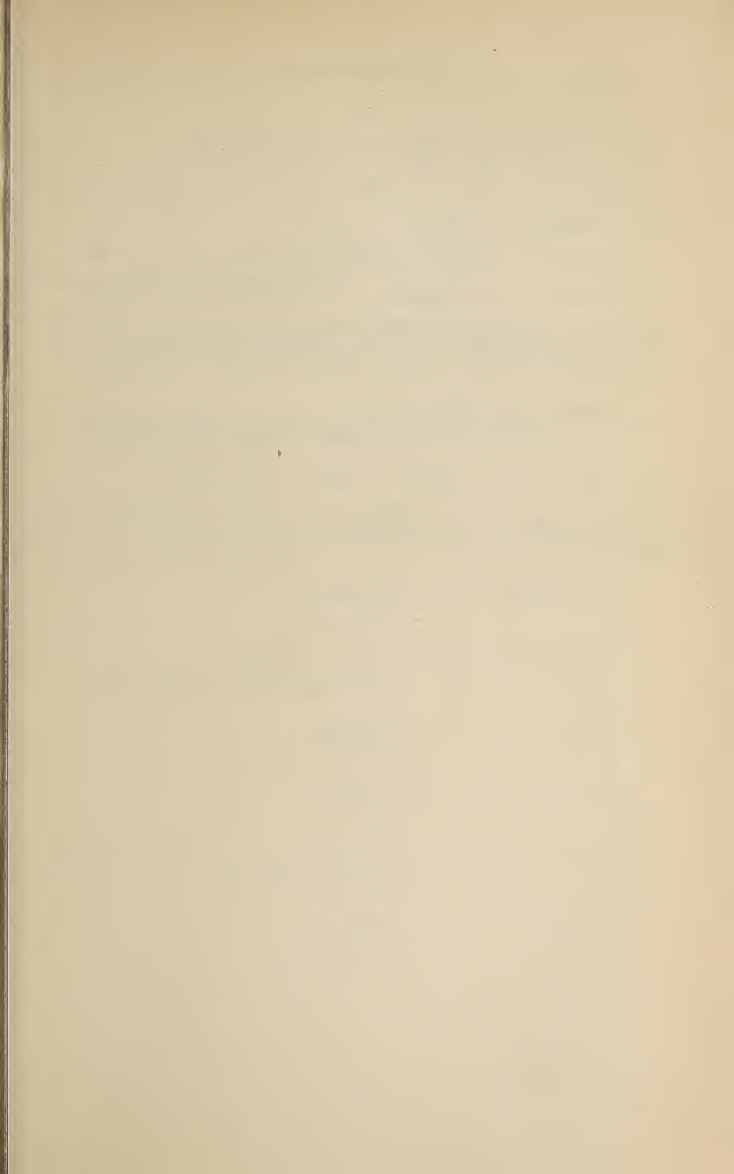
FIRST PAPER.

1. Trace the development of the doctrine of the Atonement in Holy Scripture.
 2. Sketch the History of the Doctrine to present day.
 3. State the principal objections or difficulties urged against the Doctrine. Criticise them.
 4. On what did the Controversy between Pelagius and Augustine turn, and to what doctrines does it extend ?
 5. Mention "the five points" of the Remonstrants in 1610.
 6. Explain Christ's method in seeking to save men.
 7. State the argument of the Epistle to the Galatians.
 8. What objections were urged against the doctrine of justification by faith in Luther's day.
-

SECOND PAPER.

1. Give references to the heresies in John's writings. How does he meet them ?
2. What different definitions may be given of Faith ? Define and show the relations of natural and Christian faith.
3. Give the Scriptural and Historical meanings of Regeneration.
4. What is the relation of "the law" to Christians ? Vindicate your position.
5. What is the relation of the Sabbath to Christians ?
6. Give the opposite "notes" of the Church as a Society.
7. What is the nature and extent of the power implied in Church Government ?





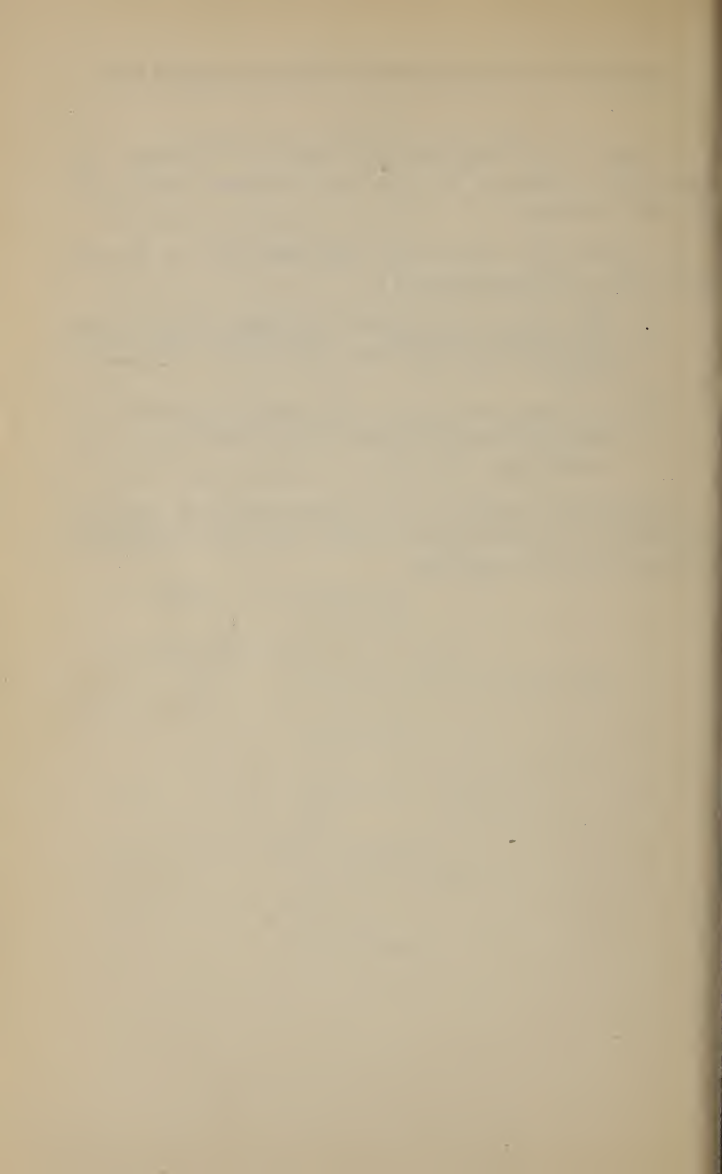
O. T. Exegesis.

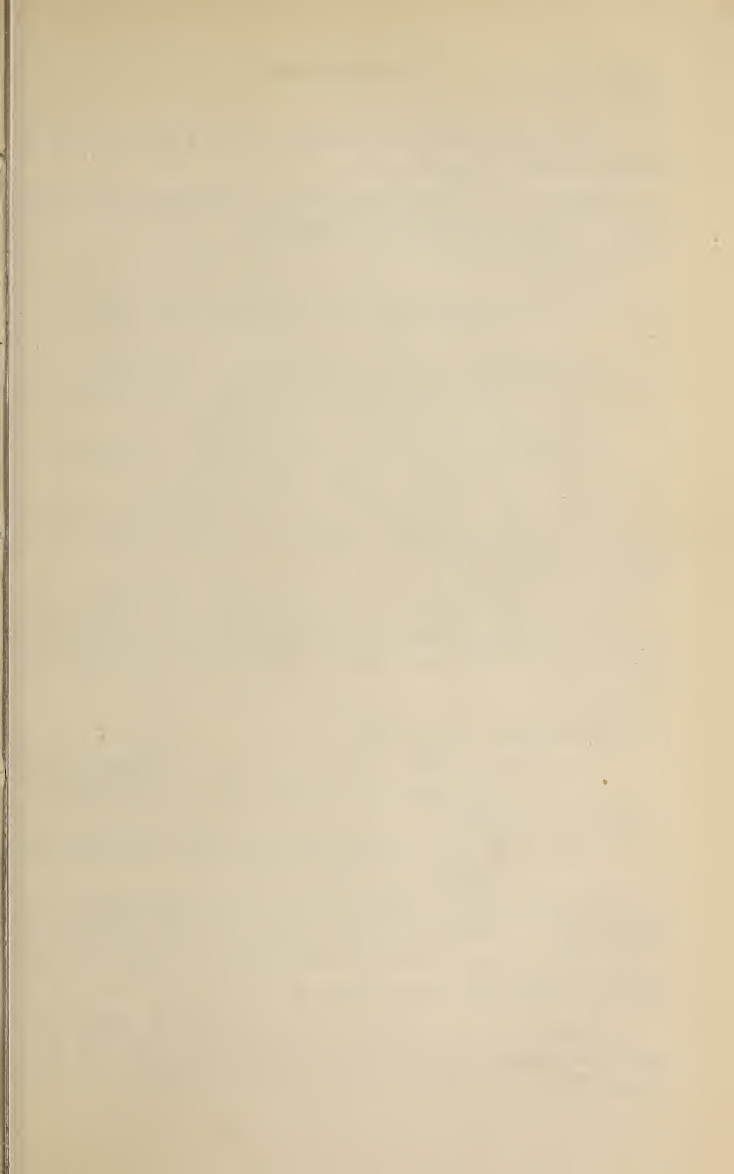
HAGGAI AND ZECHARIAH IN LXX.

1. Translate (1) Hag. ii. 12-17.
(2) Zech. v. 6-11.
2. Parse (1) *κατελαβουσιν*, (2) *κατεαξαν*, (3) *ποδηρη*.
3. Shew that Hag. ii. 7 ("the desire of all nations" A.V.) does not refer to the first coming of our Lord.
4. Explain (1) Hag. ii. 14.
(2) The first four visions of Zechariah.
5. What is the subject of Zech. vii. viii.?
6. Account for the difference between the Lxx. and the A.V. in
 - (1) Hag. i. 11 *δρομφαιαν*
a drought.
 - (2) Zech. iii. 10 *ορυσσω βοθρον*
I will engrave the graving.
 - (3) " " " *ψηλαφησω*
I will remove.
 - (4) " v. 1 *δρεπανον*
roll.
 - (5) " " 3 *εχδιχηθησεται*
shall be cut off.
 - (6) " " 6 *αδικια*
resemblance.

Examination in Introduction to Deuteronomy for B.D.

1. Shew that Deuteronomy was not written by Jeremiah. Account for the resemblances between it and his writings.
2. Answer the following objections to the Mosaic authorship of Deuteronomy :
 - (1) The law as to a central sanctuary xii. 6, 11 was disregarded by judges, David and other pious men.
 - (2) In Deuteronomy the Levites are said to discharge priestly functions, and the priests are called sons of Levi.
3. Shew the validity of the argument for the Mosaic authorship of Deuteronomy drawn from the testimony of Christ and the apostles.





1. Group the Pauline Epistles, giving place and date of their composition.

2. What was Paul's purpose in writing to the Galatians? State briefly his argument.

3. Translate Gal. 2:1-4.

(1) From what date are the 14 years to be reckoned? Give reasons for your opinion.

(2) ἀνέβην δε κατὰ ἀποκάλυψιν. Reconcile this with Acts 15:2, which says he was sent up by the Church at Antioch.

(3) Analyse, giving grammatical construction, ἀνεθέμην, τρέχω, περιτμηθῆναι.

4. State the theories as to the destination of the Epistle to the Ephesians. Which do you adopt? Give reasons for so doing.

5. Show that there is a fundamental distinction between the leading ideas in the Ephesian and Colossian Epistles, and that one could not be a reproduction of the other.

6. Translate Phil. 2:5-8.

(1) Distinguish between μορφή and σχῆμα, and illustrate their difference by two English words.

(2) What are the interpretations of οὐχ ἀρπαγμὸν ἡγήσατο τὸ εἶναι ἴσα θεῷ?

7. Answer Baur's objections to the authenticity of Philippians (1) there is nothing distinctively Pauline in it, (2) the phrase ἐπισκόποις καὶ διακόνους, Phil. 1:1 indicates a later date than Paul.

8. Distinguish (1) δικαιοσύνην τὴν ἐν νόμῳ, Phil. 3:6, and δικαιοσύνην τὴν ἐκ νόμου, Phil. 3:9. (2) τὰ περὶ ὑμῶν, Phil. 2:20, and τὰ περὶ ἐμέ, Phil. 2:23.

9. Col. 1:15–16. εἰχὼν τοῦ θεοῦ : . . . πρωτότοκος πασῶς κτίσεως . . . τὰ πάντα ἐν αὐτῷ συνέστηκε. What errors do they refer to?

10. Col. 1:20. δι' αὐτοῦ ἀποκαταλλάξαι . . . εἴτε τὰ ἐπὶ τῆς γῆς, εἴτε τὰ ἐν τοῖς οὐρανοῖς “is not Pauline teaching, which confines the benefits of Redemption to Humanity.” Quote a passage from any of the four great Epistles which refutes this objection.

11. Interpret ἀναπληρῶ τὰ ὑστερήματα κ. τ. λ. Col. 1:24.

12. Col. 1:28. πάντα ἄνθρωπον ἐν πασῇ σοφίᾳ πάντα ἄνθρωπον τέλειον. What are the doctrines of the false teachers with which Paul here contrasts his instruction?

13. Translate I. Thess. 4:15. How did the Thessalonians interpret ἡμεῖς οἱ ζῶντες, and what were the practical consequences of their interpretation?

14. It is said that 1st and 2nd Thess. contradict each other regarding the time of the παρουσία; the former declaring it to be imminent, the latter asserting that certain great occurrences must first take place. How may they be reconciled?

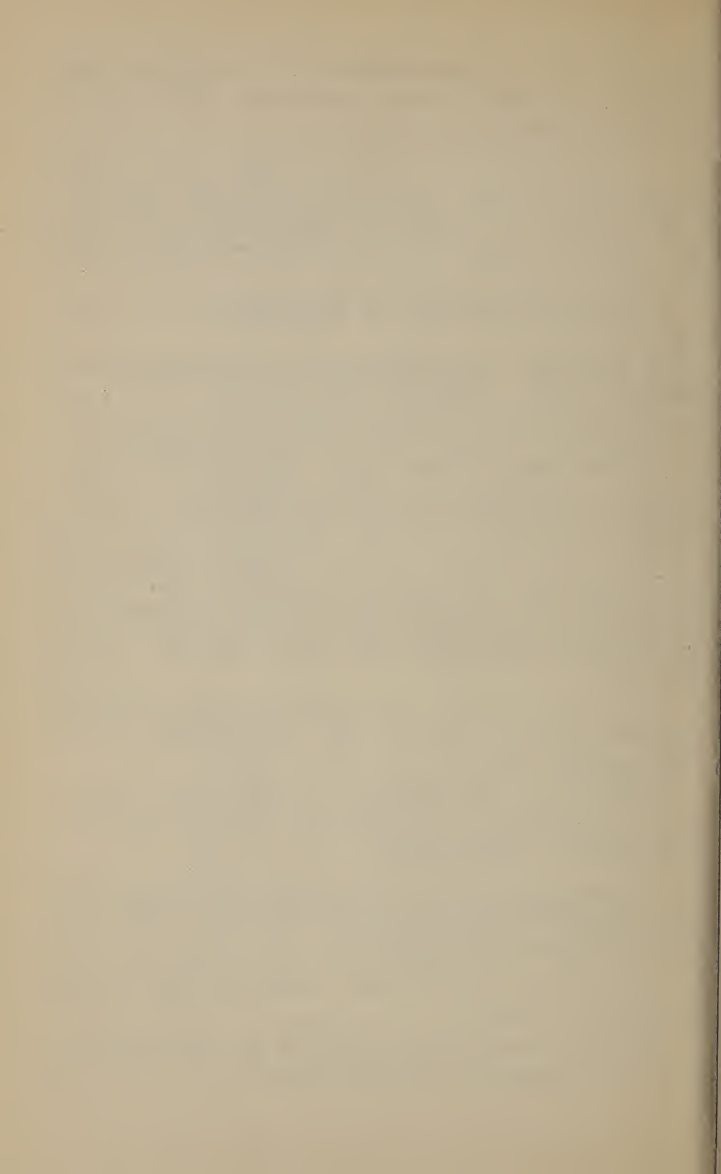
15. At what period in Paul's life were the Pastoral Epistles written? Mention any circumstances which support your view.

16. What are the objections to the Pauline authorship of the Epistle to the Hebrews? Who is the probable author? Give reasons.

17. Distinguish between καί and τέ: ἄφεις and πάρεσις: βούλομαι and θέλω: κράτος and ἰσχύς: ἄγιος and ὁσιος: καύχημα and καύχησις.

18. Describe Codices **X** and **C**; and state Scrivener's great Critical Canon.

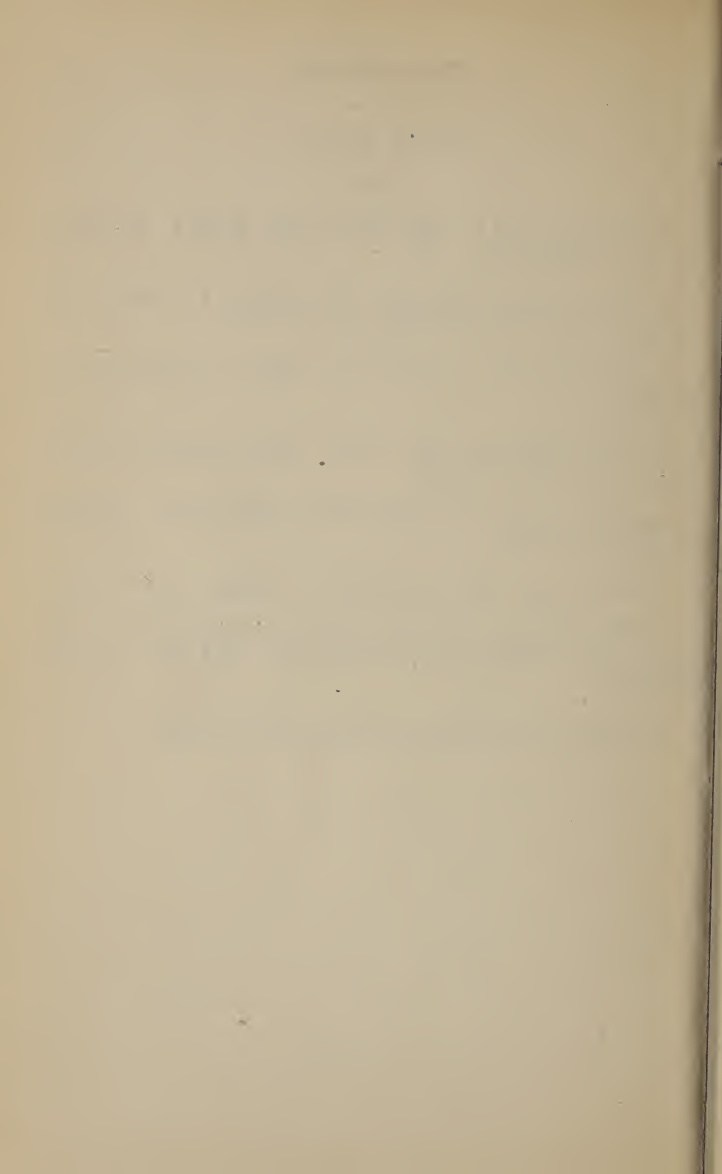
19. What were the sources of the Textus Receptus, and who introduced it into the West?

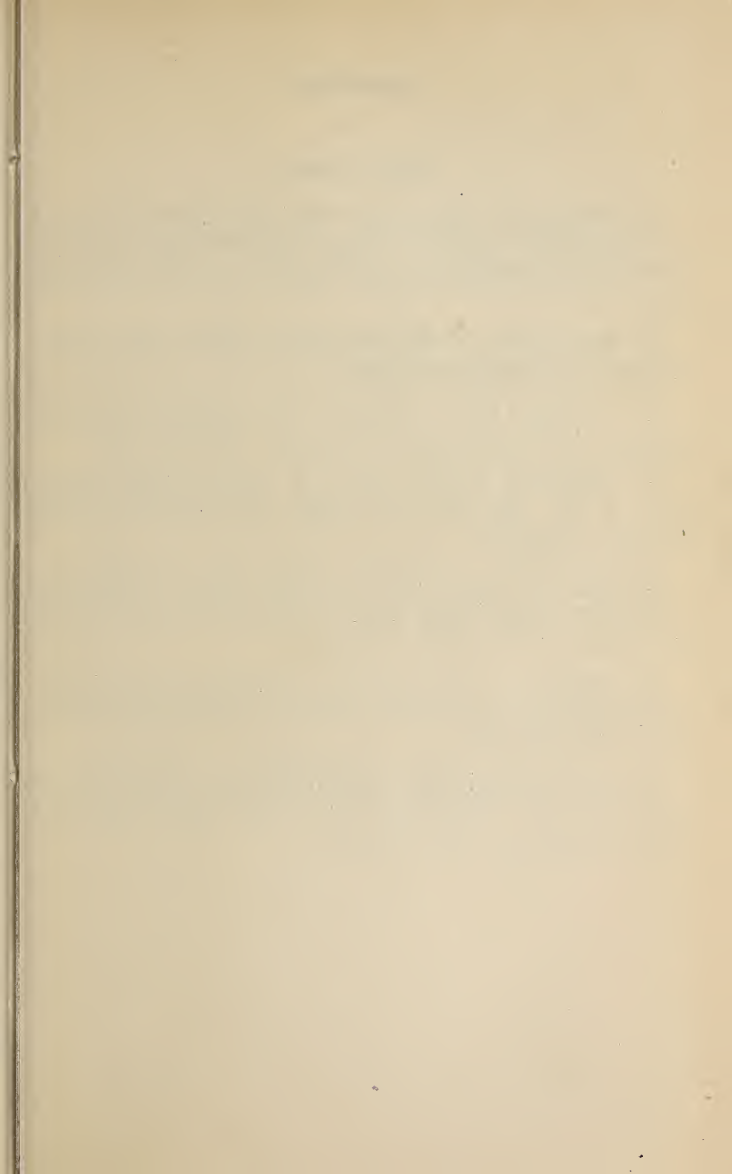


Church History.

SECOND PAPER.

1. St. Columba? His Life? His Work? St. Ninian? St. Mungo?
2. The Culdee Church? Its history? When absorbed in the Church of Rome?
3. The Donatist controversy? Was it a heresy or a schism?
4. The Crusades,—the causes that originated them. Sketch the first Crusade.
5. Why did the Crusades fail? State some of their beneficial results.
6. Who was Thos. A. Becket? Manner of his death.
7. The Passage at arms between Gregory VII. and Henry IV. of Germany, also Innocent III. and John of England.
8. Outline the Life and Work of Wickliffe.





Apologetics.

FIRST PAPER.

1. Criticise the statement "that the moral evidences of christianity ought to occupy the *first* place, and its miraculous attestation the *second*, in the Christian argument."

2. Mention the different ways in which the Supernatural has manifested itself.

3. To assert that a special Revelation is necessary implies the imperfection of Reason. Refute this.

4. According to the author of "Natural Religion," how is the Bible to be brought into harmony with modern thought?

5. State the fundamental critical canon of Strauss, and what, according to him, are the sources of the miraculous naratives of the Gospels?

6. Explain the "Statute of Limitations," and show how it affects later adverse testimony against the authorship of the Gospels.

7. State and criticise the fundamental principles of the theory of "Historical Tendencies" with regard to the composition of the Gospels.

Apologetics.

SECOND PAPER.

1. Criticise Renan's statements that the progress of Christianity was due (1) to the influence of Roman institutions, (2) to the deepening of the religious sentiment in the Empire at the Advent of Christ.

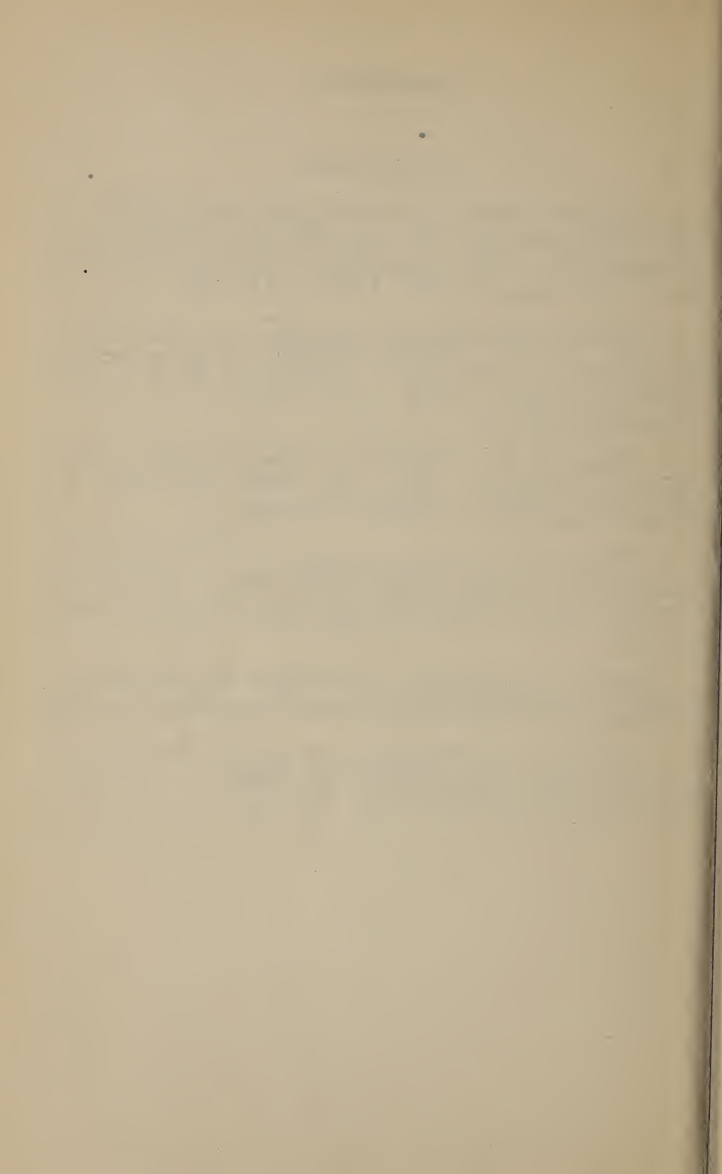
2. What are the alleged steps in the evolution of the conception of a Supernatural Power or Agency by the Fetish-worshipper? How do you account for the origin of the Conception?

3. What are M. Comte's four necessary stages in the history of Religion? State and refute the theory of Man on which this hypothesis is based.

4. What are the typical features of Zoroastrianism, Brahmanism, and the Religion of Greece, and the truths in these systems which are more fully taught in Christianity?

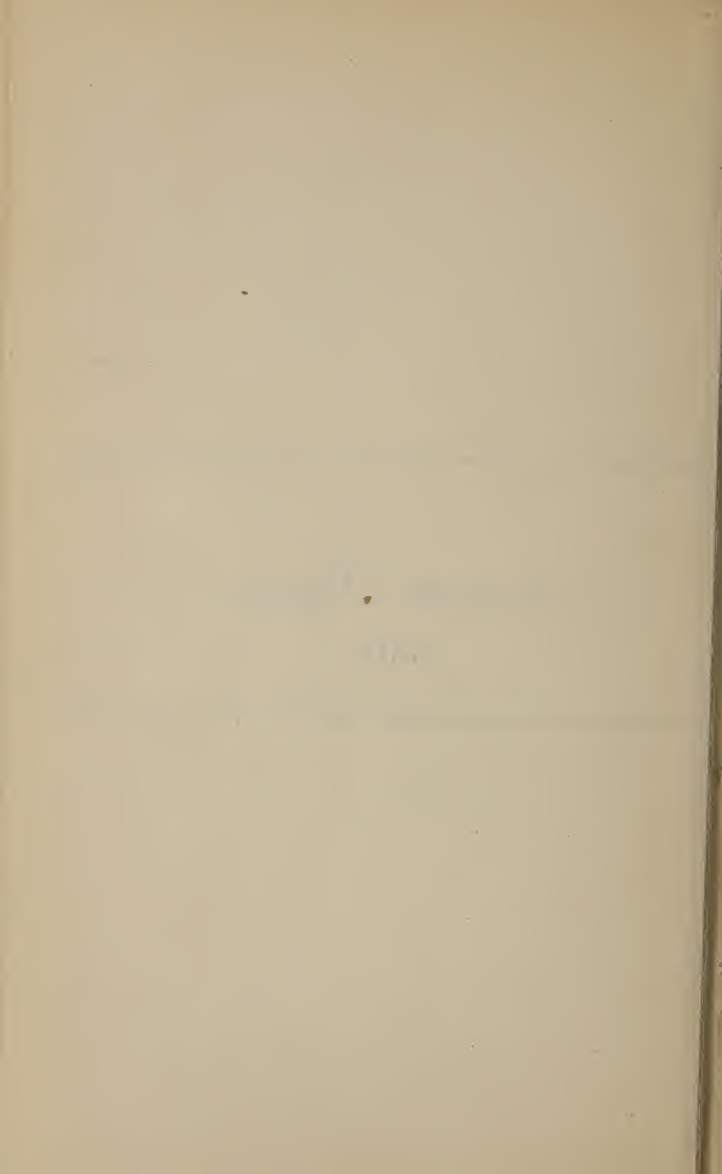
5. State the argument derived from the Philosophy of History in favour of Christianity as a Divine scheme.

6. Show that the Socialistic problem can find its true solution only by the practical application of the principles of Christianity.



Honour Papers.

ARTS.



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Honour Classics.

Greek Books.

- (a) Thucydides, B. iii., ch. 37.
B. vii., ch. 71, §§ 1-6.
- (b) Herodotus, B. ix., ch. 98-9.
- (c) Demosthenes, De Corona, pp. 268 and 319.
- (d) Plato, Republic, 365, A-D ; 437, D-E.
- (e) Aristotle, Ethics, B. i., ch. 4, §§ 5-7.
B. ii., ch. 5, §§ 1-3.
B. x., ch. 3, §§ 4-5.
- (f) Homer, Iliad, B. vi., 466-481 ;
B. xviii., 550-572.
B. xxii., 487-497.
Odyssey, B. vi., 96-109.
B. xii., 426-444.
- (g) Sophocles, Ajax, 596-621.
Philoctetes, 927-948.
- (h) Aeschylus, Agamemnon, 281-315 ; 975-997.
Prometheus, 776-796.
- (i) Euripides, Medea, 1323-1350.
- (j) Aristophanes, Clouds, 94-128.
- (k) Pindar, Isthmia, viii., 1-50.

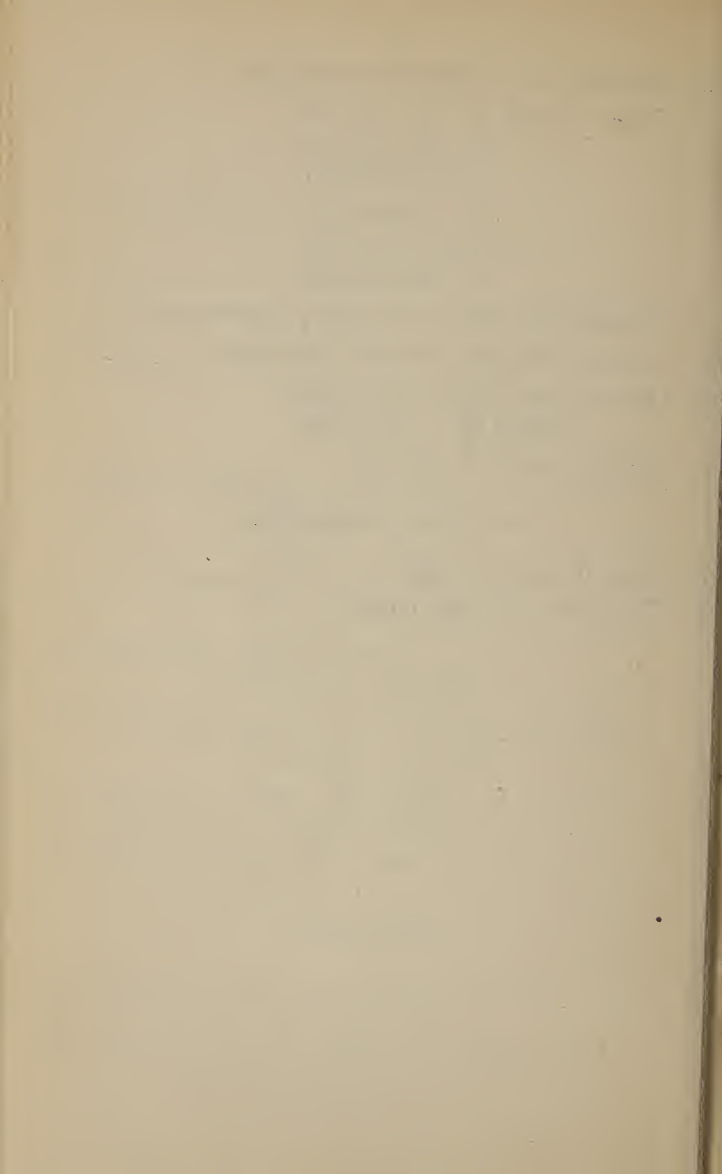
Latin Books.

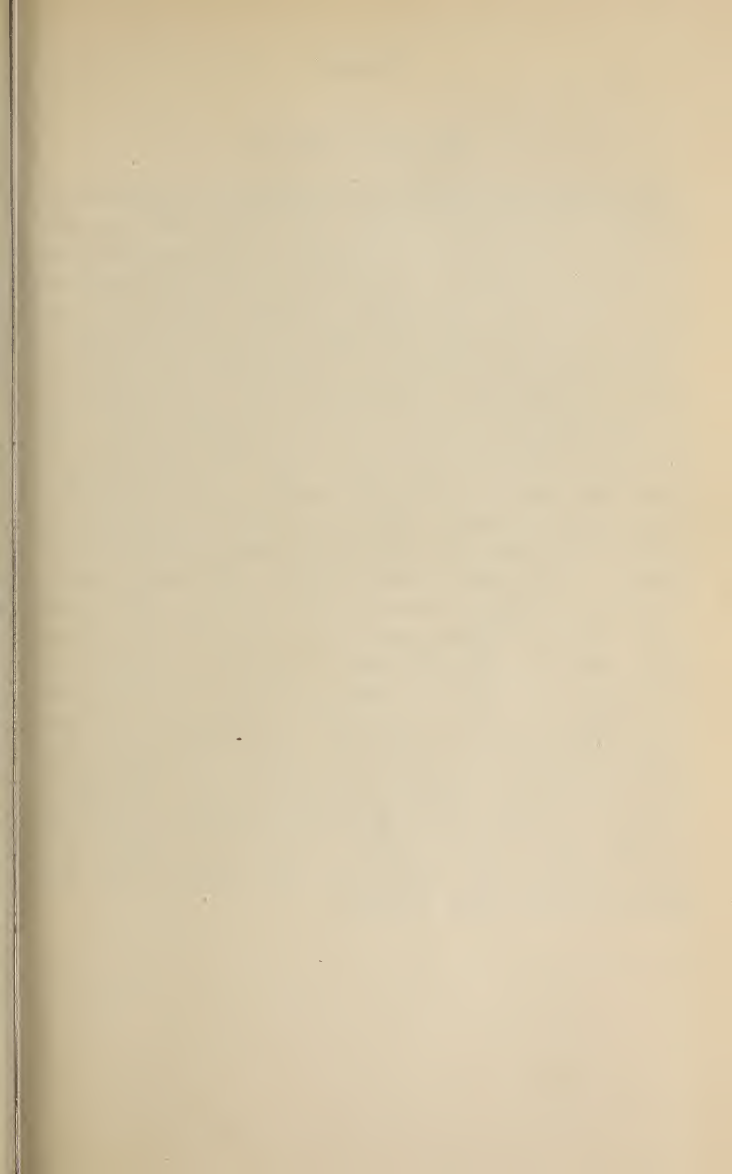
- (a) Tacitus, Annals, B. I., ch. 30 ; ch. 70.
- (b) Livy, B. xxi., ch. 14 ; ch. 54.
- (c) Cicero, De Oratore, §§ 55-58 ; §§ 157-159.
Pro Murena, § 47.

- (*d*) Lucretius, B. iii., 203–215 ; 870–893.
- (*e*) Virgil, Aeneid, B. vii., 107–119.
B. viii., 255–267.
B. ix., 422–439.
B. x., 755–771.
B. xi., 741–756.
B. xii., 259–276.
- (*f*) Plautus, Trinummus, 116–145 ; 1008–1028.
- (*g*) Terence, Phormio, 231–250 ; 968–988.
- (*h*) Horace, Odes, B. iii., 29, 25–64.
Satires, B. i., 10, 56–92.
- (*i*) Juvenal, Satire x., 133–150.

For Unseen Translation.

- (*a*) Livy, B. xxiii., ch. 48.
- (*b*) Thucydides, B. viii., ch. 63.





For Latin Prose.

The Persian of to-day is immeasurably inferior to the Persian of the time of Cyrus. If Cyrus took an oath, he kept it; if he gave a pledge, he redeemed it; but the present king has violated the most sacred pledges and broken the most solemn oaths. Cyrus was considered the father of his people, but the present king is their tyrant and oppressor. In consequence of this impiety and injustice on the part of their ruler, the nation at large has also become impious and unjust; for a nation will be neither better nor worse than its rulers. In the time of Cyrus they were taught from boyhood to speak the truth and practise justice; now they tell lies and practise injustice. They have also degenerated in many other respects from the character of their forefathers. They used to drink water and that too, sparingly; now they are often drunk with wine. One meal a day used to suffice; now they often sit at the feast from morning till midnight. Once they could bear with equal fortitude the heat of summer and the cold of winter; now they require hats and gloves in winter and artificial shade in summer. Once they were ardently devoted to the chase; now they hate those who love hunting as showing superior virtue. By their courage and skill in war they once reduced a great part of Asia under their dominion; but now an enemy can pass through their territories with greater ease and greater security than a friend.

For Greek Prose.

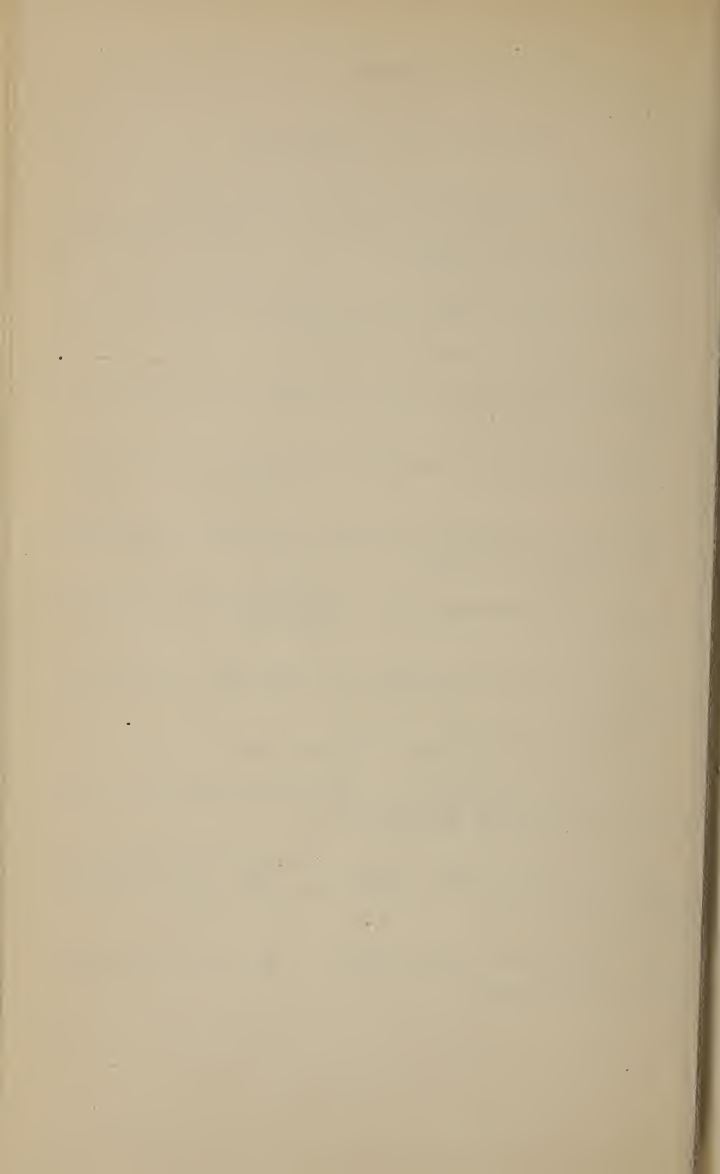
At sunset the Median horse rode into camp with their prisoners and halted before the tent of Cyrus. After asking if all were safe, he at once began to question them as to the results of their expedition and listened with the greatest interest to their narrative. When they had told him all they wished to tell, he demanded if the country through which they had passed was populous or not. They replied that their ride had taken them far across the country and that it was all densely populated and abounded in sheep and oxen and corn and wine. "Two considerations, then," said he, "demand our attention. We have to consider, first, the means by which we can keep control of the country we have conquered; and, secondly, the means by which we can ensure its inhabitants remaining in it. A populous country is a most valuable conquest; but a country destitute of population is destitute of everything that is valuable. These prisoners, therefore," he continued, "must be released. For on the one hand when the people of the country see their friends returning home in safety, they will be more willing to remain in the place and accept peace at our hands; and, again, as long as we retain control of the country, all the people in it are virtually our prisoners."

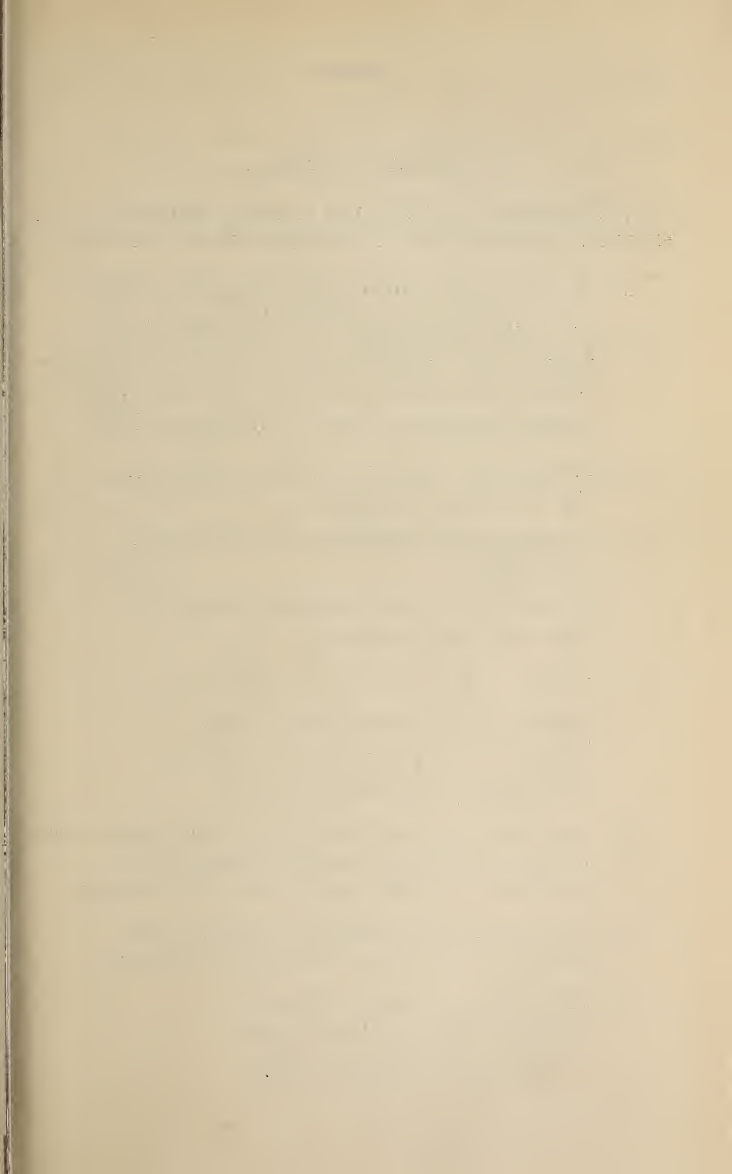


Classics.

Grammar and Philology.

1. State with examples the chief uses of *πρός*.
2. Compare Greek and Latin syntax with respect to the rules for oratio obliqua.
3. Write a short paper on the middle voice.
4. Give rules for the use of *μή οὐ*.
5. What limitation to the use of the fut. inf. pass. in Latin?
6. How does Latin supply the absence of the pf. part. act.?
7. State any general principles of use in turning English into Latin and Greek.
8. Show by examples the original affinity of Greek and Latin.
9. Every part of language was originally significant. Illustrate.
10. State and illustrate Grimm's Law.
11. From a comparison of *genus* and *γένος* determine the original form of the genitive.
12. Give the vowel system of the Indo-European speech and mention the additions made by the Greeks and Latins.
13. Analyse the form *amantur*. Show that the term *deponent* is incorrect.





GENERAL PAPER, A.

1. Translate the following extracts, explaining allusions and quoting parallel passages where you can :

- (a) Ἡ μὲν ἄρ' ὥς εἰποῦσ' ἀπέβη γλαυκῶπις Ἀθήνη
 Οὐλυμπόνδ', ὅθι φασὶ θεῶν ἕδος ἀσφαλὲς αἰεὶ
 ἔμμεναι· οὔτ' ἀνέμοισι τινάσσεται οὔτε ποτ' ὄμβρῳ
 δεύεται οὔτε χιῶν ἐπιπίλνεται, ἀλλὰ μάλ' αἶθρη
 πέπταται ἀνέφελος, λευκὴ δ' ἐπιδέδρομεν αἴγλη.
- (b) Δίχα δὲ λάμπει μὲν ἐν δυσκάπνοις δώμασιν,
 τὸν δ' ἐναΐσιμον τίει βίον.
 τὰ χρυσόπαστα δ' ἔδεθλα σὺν πίνῳ χειρῶν
 παλιντρόποις
 ὄμμασι λιποῦσ', ὅσια προσέβαλε δύναιεν οὐ
 σέβουσα πλούτου παράσημον αἶνῳ.
- (c) ὦ Ζεῦ, τί δὴ χρυσοῦ μὲν ὃς κίβδηλος ἦ
 τεκμήρι' ἀνθρώποισιν ὥπασας σαφῆ,
 ἀνδρῶν δ' ὅτῳ χρὴ τὸν καχὸν διειδέναι,
 οὐδεὶς χαρακτήρ ἐμπέφυκε σώματι.
- (d) 'Iam iam non domus accipiet te laeta, neque uxor
 optima nec dulces occurrent oscula nati
 praeripere et tacita pectus dulcedine tangent.
- (e) per pice torrentis atraque voragine ripas
 adnuat et totum nutu tremefecit Olympon.
- (f) Visendus ater flumine languido
 Cocytos errans et Danaï genus
 Infame damnatusque longi
 Sisyphus Aeolides laboris.

2. What is an *ode*? Analyse one of Pindar's odes and compare it with any English ode you know.

3. State the more important opinions that have been held as to the composition of the Homeric poems.

4. Sketch the plot of any of the plays of Sophocles and compare it with that of any of the plays of Shakespeare.

5. Criticise the Socrates of the *Clouds*.

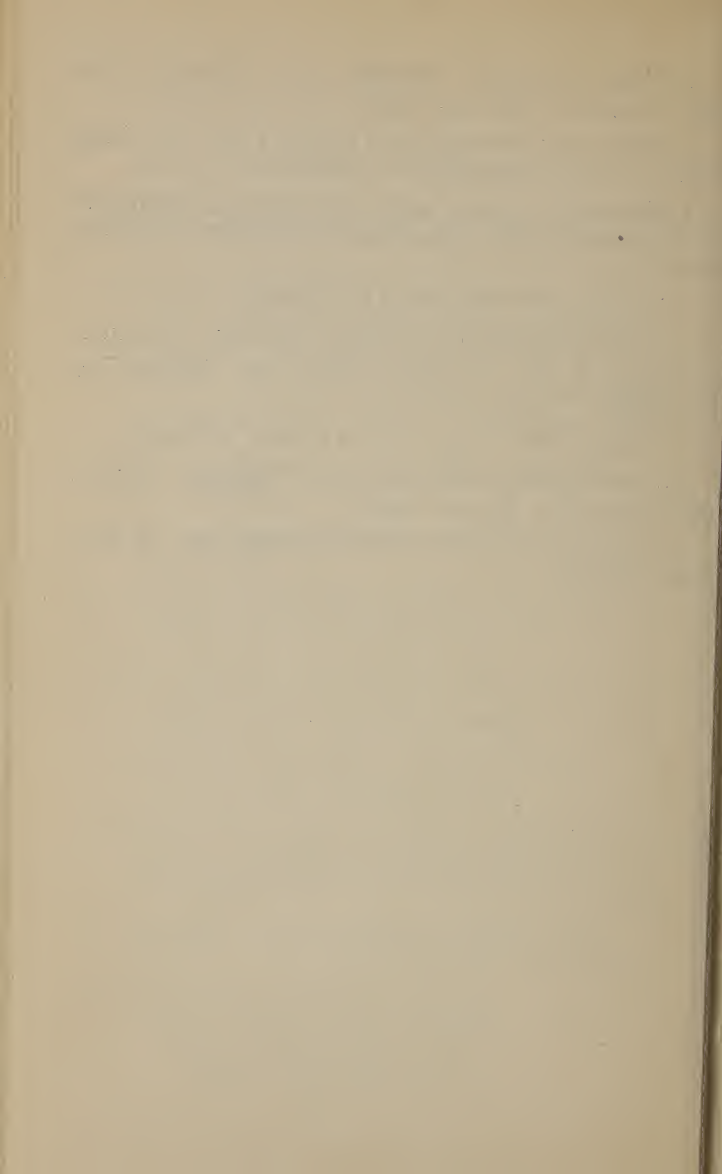
6. Sketch the history of Roman dramatic literature.

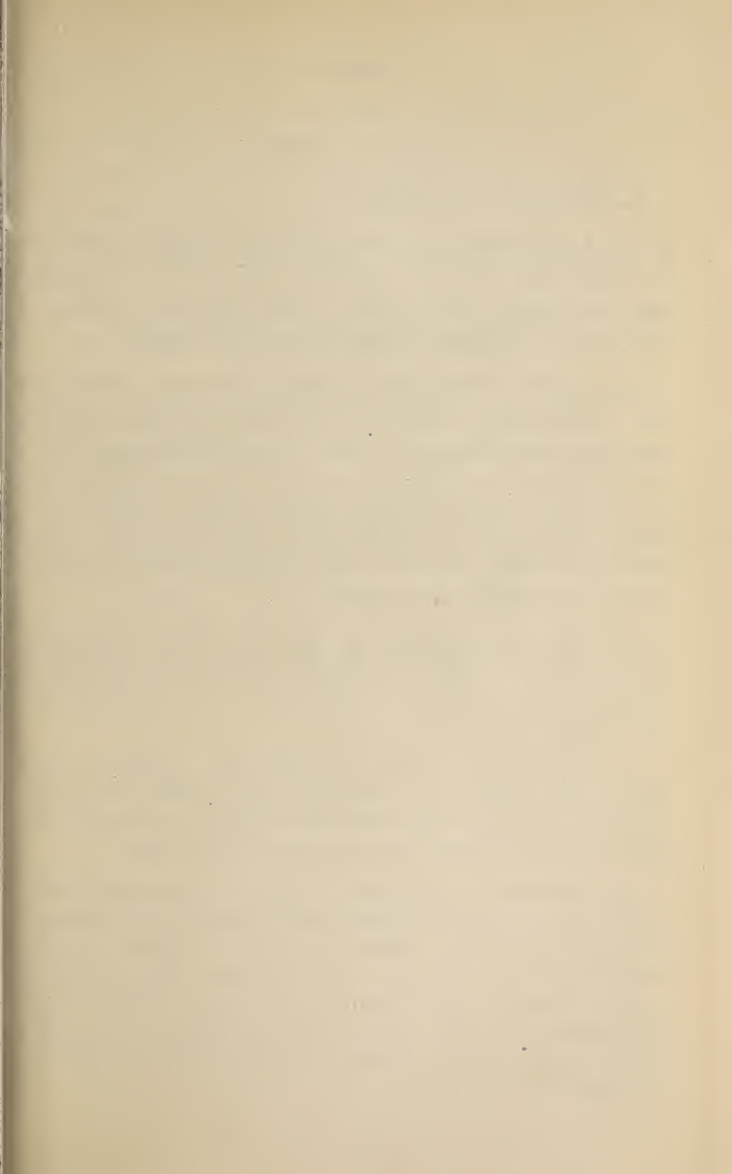
7. Give a list of archaic forms from Plautus and Lucretius.

8. Write a short paper on the similes of Virgil.

9. *Satira quidem tota nostra est.* Explain. Give a short account of Roman satire.

10. Give a scale of the Greek senarian and of Horatian Alcaics.





GENERAL PAPER, B.

1. Translate and explain :

(a) Καὶ ἀνδρεία ἄρα πόλις μέρει τινὶ ἑαυτῆς ἐστί, διὰ τὸ ἐν ἐκείνῳ ἔχειν δύναμιν τοιαύτην, ἥ διὰ παντὸς σώσει τὴν περὶ τῶν δεινῶν δόξαν, ταῦτά τε αὐτὰ εἶναι καὶ τοιαῦτα, ἃ τε καὶ οἷα ὁ νομοθέτης παρήγγειλεν ἐν τῇ παιδείᾳ.

(b) τοιοῦτῳ δ' ἔοικεν καὶ ἡ ἡδονή. ὅλον γάρ τι ἐστὶν καὶ κατ' οὐδένα χρόνον λάβοι τις ἀν ἡδονὴν ἥς ἐπὶ πλείῳ χρόνον γινομένης τελειωθήσεται τὸ εἶδος. διόπερ οὐδὲ κίνησις ἐστίν.

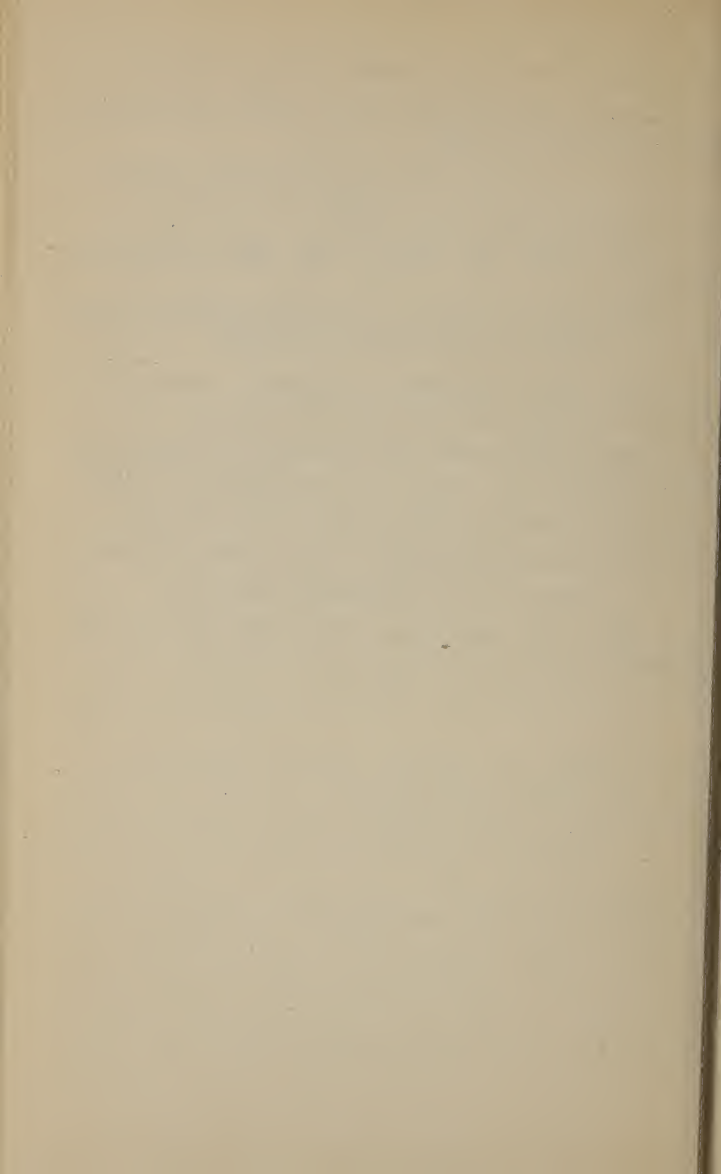
(c) τῇ δ' ὑστεραίᾳ ἅμα τῇ ἡμέρᾳ οἱ μὲν πρυτάνεις τὴν βουλὴν ἐκάλουν εἰς τὸ βουλευτήριον, ὅμεις δ' εἰς τὴν ἐκκλησίαν ἐπορεύεσθε, καὶ πρὶν ἐκείνην χρηματίσαι καὶ προβουλεύσαι πᾶς ὁ δῆμος ἄνω καθῆτο.

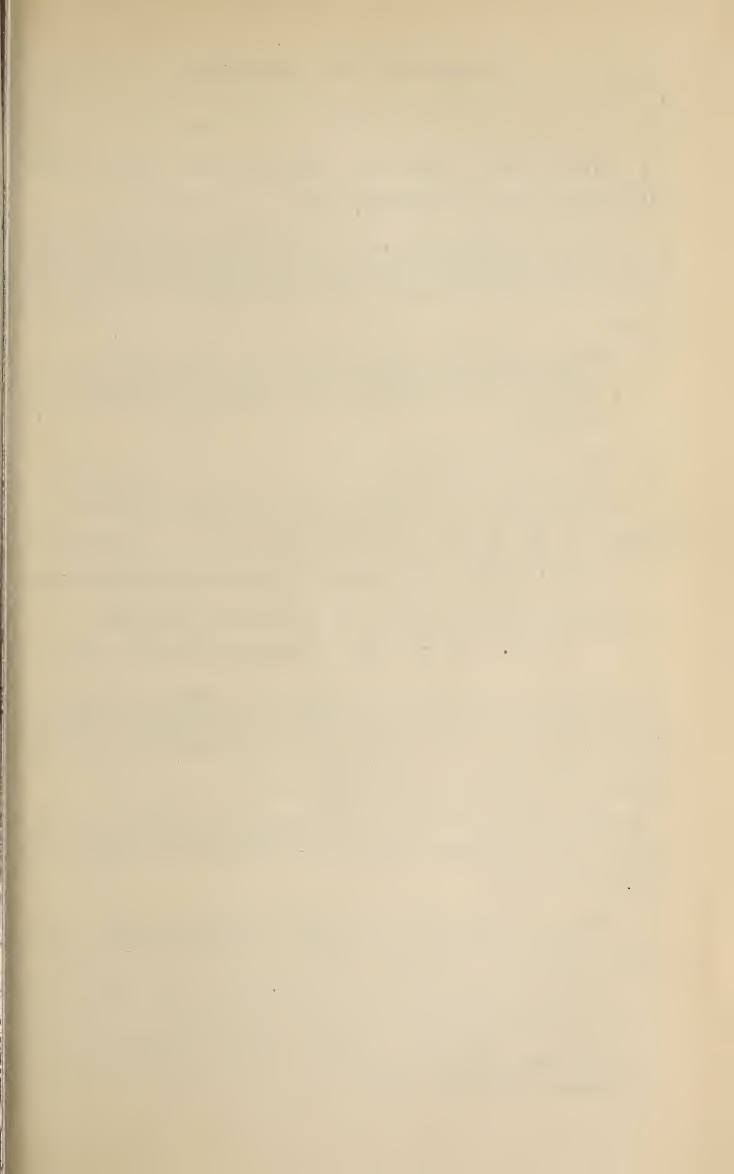
(d) Inventus est scriba quidam Cn. Flavius, qui cornicum oculos confixerit et singulis diebus discendis fastos populo proposuerit et ab ipsis causis iuris consultorum sapientiam compilarit.

(e) Syngrapha sestertii centiens per legatos, viros bonos, sed timidos et imperitos, sine nostra, sine reliquorum hospitem regis sententia, facta in gynaeceo est, quo in loco plurimae res venierunt et veneunt.

(f) Bellum ea tempestate nullum nisi adversus Germanos supererat, abolendae magis infamiae ob amissum cum Quintilio Varo exercitum quam cupidine proferendi imperii aut dignum ob praemium. domi res tranquillae, eadem magistratuum vocabula; iuniores post Aetiacam victoriam, etiam senes plerique inter bella civium nati: quotus quisque reliquus qui rem publicam vidisset?

2. Sketch the history of prose writing in Greece.
3. Mention the principal Greek dialects with some of the peculiarities of each.
4. Give an account of the Amphictyonic Council.
5. Describe Greek naval tactics.
6. State what you know of the chief liturgies at Athens.
7. What answer is given (*a*) by Thrasymachus, (*b*) by Socrates to the question, *What is justice?*
8. Give some account of Aristotle's treatment of *pleasure* in the tenth book of the Ethics.
9. State Cicero's political relations (*a*) when he defended Murena, (*b*) when he wrote the second Philippic.
10. Draw a plan of Rome at the time of Cicero.
11. Describe the functions of the Comitia Tributa.
12. Compare Livy and Tacitus as historians.
13. What was the nature of the power held by Augustus?





1. Show how to find the reciprocal of a given line with respect to a given unit-area.

2. If four points be taken on a circle the three products of the perpendiculars from any fifth point on the circle to the six determined lines taken in pairs are equal.

The feet of the perpendiculars from any point on a circle to the sides of an inscribed triangle are collinear.

3. Prove the relation

$$PL \sin MN + PM \sin NL + PN \sin LM = 0$$

where L, M, N are any three lines and P any point.

If P_a, P_b, P_c , denote the perpendiculars from the circumcentre of a triangle upon the sides,

$$\Sigma(P_a \sin A) = \frac{1}{4} \{abc \sin^2 A \cdot \sin^2 B \cdot \sin^2 C\}.$$

4. If the vertices of a triangle be reflected with respect to any line the three lines connecting the reflections with any point on that line intersect the opposite sides of the triangle collinearly.

5. The triangle formed by joining the points of contact of an escribed circle is in perspective with the original triangle.

6. If two circles or a line and a circle intersect at a given angle their inverses intersect at the same angle.

Two circles intersect in P and Q , and AB is their common diameter. If the system be inverted with respect to P what relation exists between the inverses of Q and AB ?

7. Show that any triangle is self-reciprocal with respect to a circle whose centre is at the orthocentre of the triangle, and show how to find the radius of that circle.

8. The difference of the squares of the tangents from any point to two circles is equal to twice the rectangle under the distance between the centres of the circles and the distance of the point from the radical axis of the circles.

If A, B, C be the centres of coaxial circles and T_1, T_2, T_3 , be the lengths of tangents from a given point to the circles, show that

$$BC.T_1^2 + CA.T_2^2 + AB.T_3^2 = 0.$$

9. Tangents at a pair of anti-homologous points on two circles meet upon the radical axis of the circles.

10. If two equianharmonic pencils have one ray in common the remaining rays intersect collinearly.

State and prove the prominent harmonic property of a complete quadrilateral.

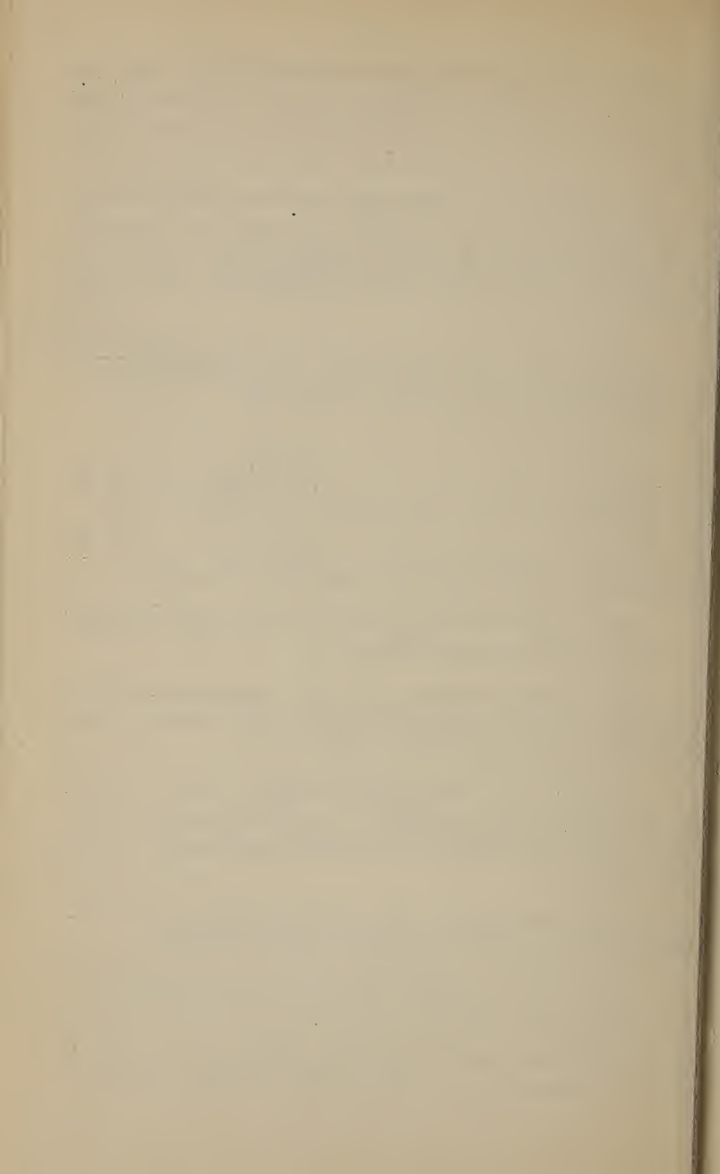
11. If six lines intersect two and two alternately in two sets of three collinear points, they intersect in a third set of three collinear points.

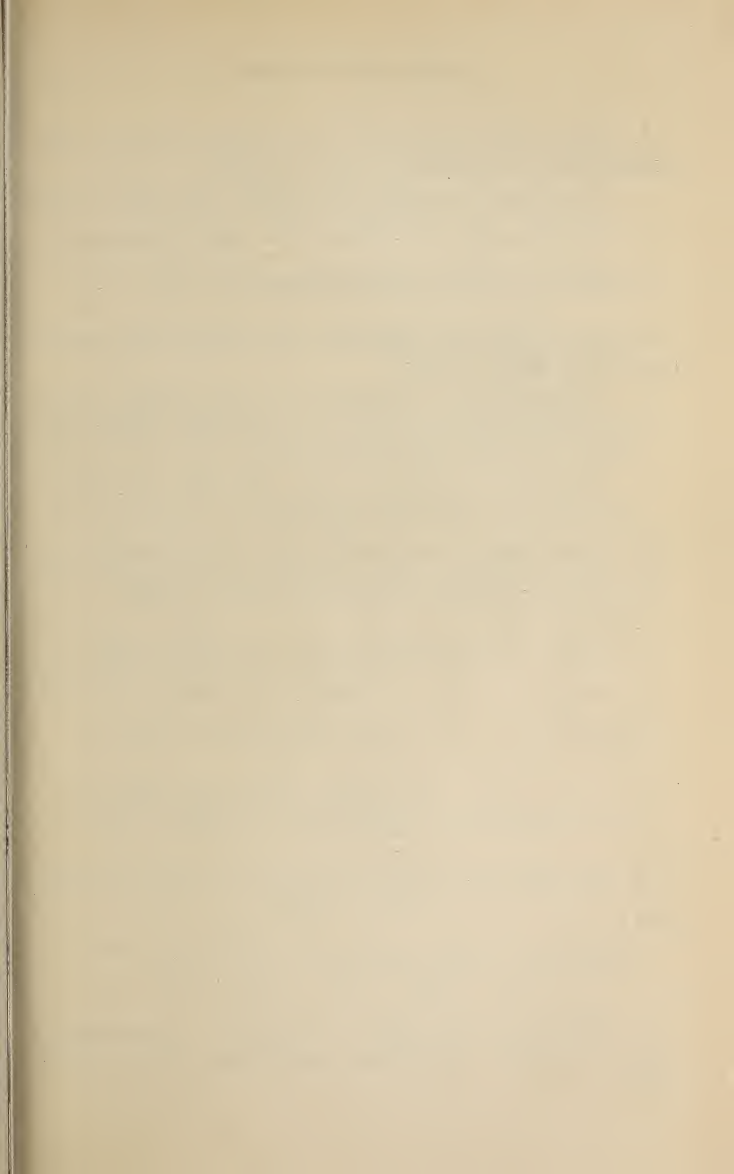
12. Through the Brianchon hexagram show that in any tetragram circumscribed to a circle the two diagonals and the two chords of contact pass through a common point.

13. Show how to find the double points of a line divided homographically by two systems of points.

In a given triangle inscribe another triangle so that its sides may pass through three given points.

14. The three pairs of opposite intersections of every tetragram determine at every point a 6 ray involution.





Algebra—Second Year.

1. Write out that function of 3 letters called a Determinant, and explain the law of signs.

Put into a matrix, $abc + 2fgh - af^2 - bg^2 - ch^2$.

If $Ax + By + Cz = 0$ and $Px + Qy + Rz = 0$ elim-

inate x, y, z from the statement $\frac{x}{l} = \frac{y}{m} = \frac{z}{n}$.

2. Prove that an equation of n dimensions cannot have more than n roots.

Show that an equation of even degree in its simplest form and with the last term negative has two real roots of contrary signs.

Diminish the roots of $x^3 - 3x^2 + 3x - 4 = 0$ by 1, and thence solve the equation.

3. Explain the principle of Indeterminate coefficients.

Put into linear factors, $ax^2 + by^2 - 2cxy$.

4. Resolve into partial fractions $\frac{7x}{(2x-3)(x+2)^2}$

5. Obtain by induction the two formulae

$$(a) \quad u_n = u_0 + n \Delta + \frac{n(n-1)}{1.2} \Delta^2 + \dots$$

$$(b) \quad S_n = nu_0 + \frac{n(n-1)}{1.2} \Delta + \frac{n(n-1)(n-2)}{1.2.3} \Delta^2 + \dots$$

6. Sum the series $\frac{1}{1.2.3} + \frac{1}{2.3.4} + \dots$ to n terms and to ∞ .

$$7. \text{ Show that } \frac{(e^2 - 1)^2}{8e^2} = \frac{2^0}{2!} + \frac{2^2}{4!} + \frac{2^4}{6!} + \dots$$

8. Deduce a convenient formula for calculating a table of natural logarithms, beginning at the number 1001.

Trigonometry—Second Year.

1. Given $\sin \theta + \cos \theta = a$ and $\sin \theta \cos \theta = b$ to find the necessary relation between a and b .

2. Show that

$$\cos A + \cos B = 2 \cos \frac{1}{2}(A+B) \cos \frac{1}{2}(A-B)$$

If $\alpha = \frac{\pi}{17}$, prove that $\frac{\cos \alpha \cdot \cos 13\alpha}{\cos 3\alpha + \cos 5\alpha} = -\frac{1}{2}$

3. A gable facing north has its vertical angle γ° ; find the angle of the shadow of the gable on level ground when the sun is south and is α° high.

4. Develope the logarithmic formula,

$$\log \tan \frac{1}{2}(B-C) = \log (b-c) + \log \tan \frac{1}{2}(B+C) - \log (b+c),$$

for finding the angles of a triangle when two sides and the included angle are given.

5. Show that $e^{xi} = \cos x + i \sin x$ and thence deduce the relation,

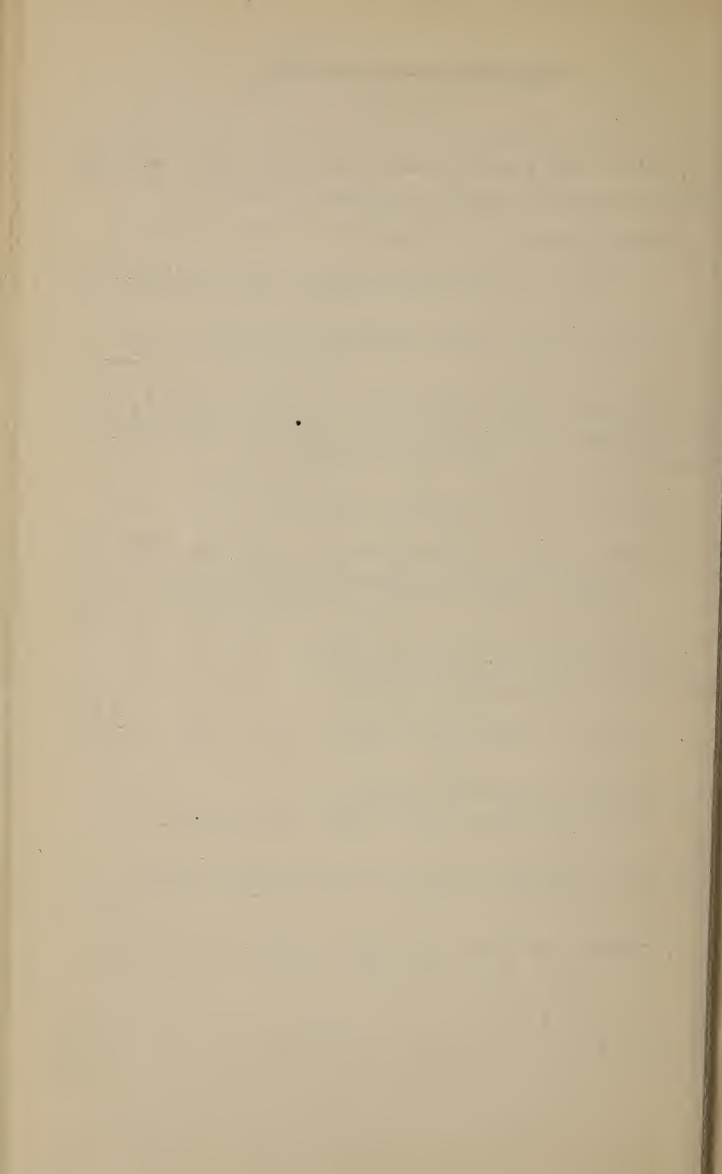
$$x = \tan x - \frac{1}{3} \tan^3 x + \frac{1}{5} \tan^5 x - + \dots \quad \left(x < \frac{\pi}{2}\right)$$

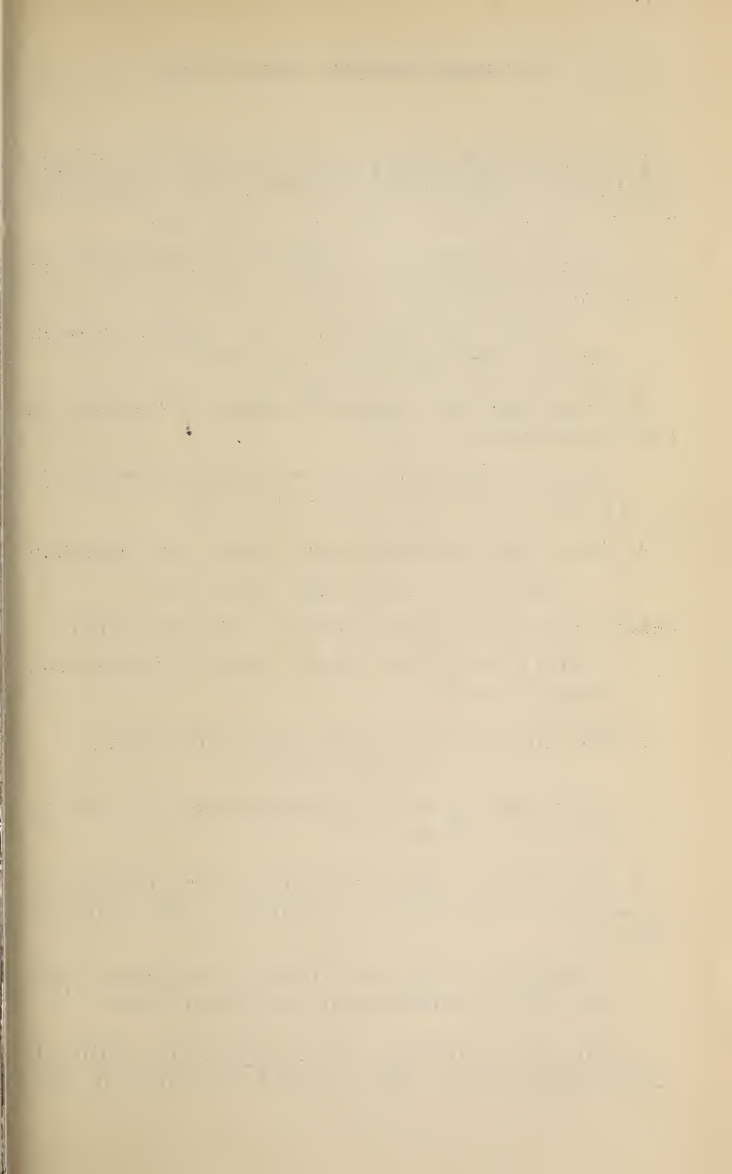
6. Sum to n terms the series

$$\cos \theta + x \cos 2\theta + x^2 \cos 3\theta + x^3 \cos 4\theta + \dots$$

7. Find quadratic factors of $x^{2n} - 2x^n \cos \theta + 1$.

8. Show that $\frac{\pi^2}{6} = \frac{1}{1^2} + \frac{1}{2^2} + \frac{1}{3^2} + \dots$ ad. inf.





1. If x_1y_1, x_2y_2, x_3y_3 be the vertices of a triangle find the coordinates of the centroid; also the equation of the perpendicular through the vertex x_1y_1 .

2. Show how to put $Ax + By + C = 0$ under the form $x \cos \theta + y \sin \theta - p = 0$.

Write the bisectors of the angles between $3x + 4y - 6 = 0$ and $12x - 5y + 3 = 0$.

3. Show that the lines $ax^2 + 2hxy + by^2 = 0$ are at right angles when $a + b = 0$.

Find the relation of m to n when $my + 2x = n(x + y)$ is perpendicular to $nx - 2y = m(x - y)$.

4. State the conditions under which the equation

$$ax^2 + by^2 + 2hxy + 2fy + 2gx + c = 0$$

denotes each of the conic sections, axes rectangular.

Find the condition under which it denotes two straight lines?

5. The line $y = mx + h$ is to touch the circle $x^2 + y^2 - r^2 = 0$

Find its equation by eliminating (1) h , (2) m , (3) both h and m .

6. The tangent at the extremity of any diameter in an ellipse or hyperbola is parallel to the conjugate diameter.

Tangents at the extremities of conjugate diameters form a parallelogram of constant area.

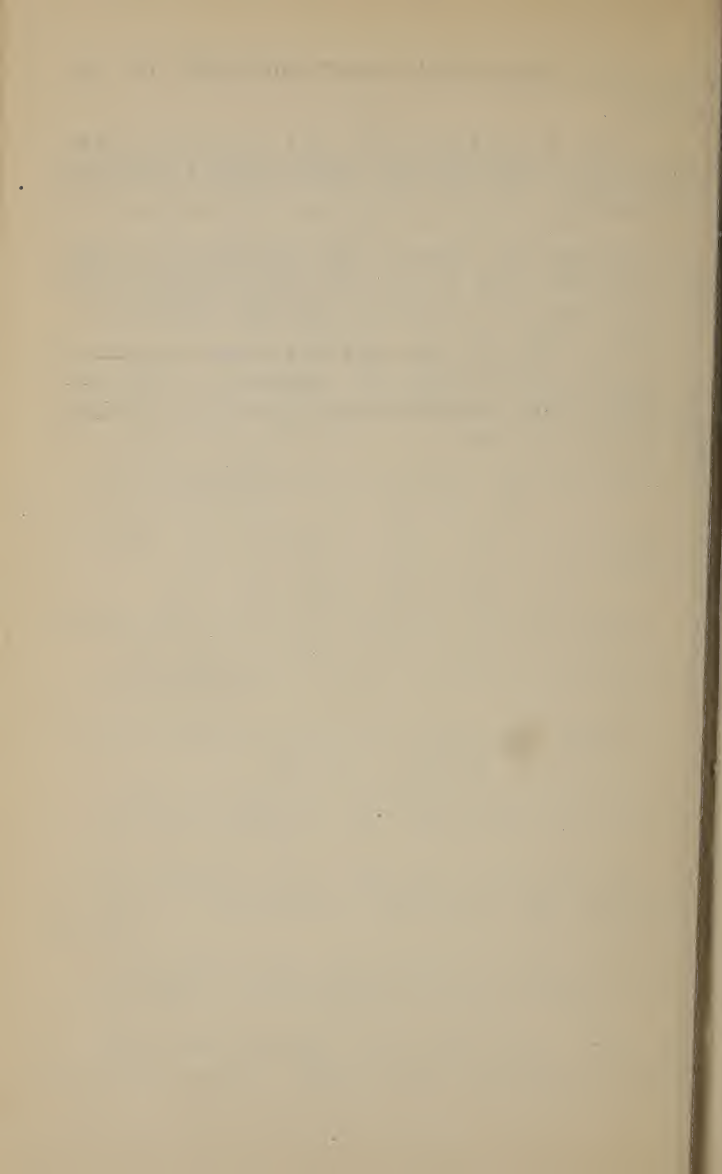
7. Find the equation of the hyperbola with its asymptotes as axes. What are the asymptotes in rela-

tion to that section of the cone which gives the hyperbola?

8. A and B are fixed points and P moves so that $PA = n.PB$. Show that the circles formed by varying n are coaxal.

9. Tangents are drawn to the parabola $y^2 = 4ax$. Show that the locus of their poles with respect to the circle $y^2 = 2ax - x^2$ is a circle of one-half the diameter.

10. If the normal at the end of the latus rectum of an ellipse passes through the extremity of the axis minor show that the eccentricity is given by the equation $e^4 + e^2 - 1 = 0$.



1. If a, b, c are the sides of a triangle show that sixteen times the square of the area is given by the symmetric determinant

$$\begin{vmatrix} 0 & a & b & c \\ a & 0 & c & b \\ b & c & 0 & a \\ c & b & a & 0 \end{vmatrix}$$

2. If $A_1, B_1, C_1, \&c.$ be first minors of $\Sigma(\pm a_1 b_2 c_3 \dots)$ show that $\Sigma(\pm A_1 B_2 C_3 \dots) = \{\Sigma(\pm a_1 b_2 c_3 \dots)\}^{n-1}$ where n is the order of the determinant.

3. Show that

$$\log x = \frac{1}{\frac{1}{x}} + \frac{1}{\frac{2}{1}} + \frac{1}{\frac{3}{x}} + \frac{1}{\frac{2}{2}} + \frac{1}{\frac{5}{x}} + \dots$$

Find the form of the n th convergent to

$$\frac{4}{5} - \frac{4}{5} - \frac{4}{5} \dots$$

4. Write the elementary relations which hold between the roots of an equation and the coefficients.

If $\alpha + \beta i$ is a root of $x^3 + qx + r = 0$ show that 2α is a root of $x^3 + qx - r = 0$.

5. If ω be one of the cube roots of unity, prove that $1 + \omega + \omega^2 = 0$.

$$\begin{aligned} \text{If } (x^3 + y^3 + z^3 - 3xyz)(x_1^3 + y_1^3 + z_1^3 - 3x_1 y_1 z_1) \\ = X^3 + Y^3 + Z^3 - 3XYZ, \end{aligned}$$

find X, Y, Z in terms of x, x_1, y, y_1, z, z_1 .

6. Find the symmetric function

$$(\alpha - \beta)^2 + (\beta - \gamma)^2 + (\gamma - \alpha)^2$$

where $\alpha \beta \gamma$ are the roots of $x^3 + p_1 x^2 + p_2 x + p_3 = 0$.

7. If the cubic $x^3 + 3a_1x^2 + 3a_2x + a_3 = 0$ be put in the form

$$z^3 + 3Hz + G = 0$$

determine the roots of the latter equation in terms of those of the former, and express H and G in terms of these.

8. Write the equation which has the function $G^2 + 4H^3$ for its independent term, and explain the use of this function in the theory of the cubic.

9. If $L = \alpha + \omega\beta + \omega^2\gamma$ and $M = \alpha + \omega^2\beta + \omega\gamma$ show that

$$L^3 + M^3 = -27G$$

$$\text{and } L^3 - M^3 = (\alpha - \beta)(\beta - \gamma)(\gamma - \alpha)(-3\sqrt{-3}).$$

10. Explain what is meant by the *reducing cubic* of a biquadratic and show how it is found.

Solid Geometry.

1. Prove the relation

$$1 = l^2 + m^2 + n^2 + 2mn \cos \lambda + 2nl \cos \mu + 2lm \cos \nu.$$

2. Find the condition that two lines given by symmetric equation, may intersect.

3. Find the plane which passes through a, b, c and is perpendicular to the planes $Ax + By + Cz = 0$ and $A'x + B'y + C'z = 0$.

4. Deduce the equation of the ellipsoid, origin at the centre; and find the length of a radius vector drawn in the direction l, m, n .

Show that the sum of the squares of the reciprocals of any three radii at right angles is constant.

5. A line parallel to the plane yz intersects the line $z = c, y = 0$ and the curve $x^2 + y^2 = a^2, z = 0$; to find the equation to the surface generated.

What are the sections when the surface is cut by

(i) the plane $z = b$?

(ii) the plane $x = c$?

6. Show that the rectilinear generators of the Hyperboloid of one sheet are given by the equations

$$\frac{l\alpha}{a^2} + \frac{m\beta}{b^2} - \frac{n\gamma}{c^2} = 0, \quad \frac{l^2}{a^2} + \frac{m^2}{b^2} - \frac{n^2}{c^2} = 0.$$

7. Write the three invariants of the central quadric surface and give their relations to the discriminating cubic.

What is the surface denoted by

$$x^2 + y^2 + z^2 + 4xy - 2xz + 4yz = 1.$$

3. Show that the equation to the tangent cone from $x' y' z'$ is

$$F(x, y, z) \cdot F(x', y', z') = \{F'(x, y, z)\}^2$$

where F' denotes the half-accentuation of the variables.

Find the tangent cone to $By^2 + Cz^2 = x$.

9. Two confocal conicoids cut one another at right angles at all their common points.

10. State and prove Meunier's theorem.



Quaternions.

1. If α, β, γ be coinitial coplanar vectors terminating in the same line the values of a, b, c which make $a\alpha + b\beta + c\gamma = 0$ also make $a + b + c = 0$; and conversely.

2. In any tetrahedron the lines from the vertices to the centroids of the opposite faces are concurrent at the point which is one-fourth the length of the line from each face.

3. Interpret the expression $a\beta = Sa\beta + Va\beta$; and show that $Va\beta\gamma = V\gamma\beta\alpha$.

4. The equation to a line being $\rho = \alpha + x\beta$ find the length of the perpendicular upon it from the point whose vector is γ .

5. Find the vector equation to the locus of the point which is equally distant from two non-intersecting lines in space.

6. Find the equation to the tangent plane to a sphere.

The locus of the foot of the perpendicular from any point on the sphere to the tangent plane is

$$\alpha^2 \rho^2 = (\rho^2 + Sa\rho)^2.$$

7. The equation of an ellipse being $S\rho\phi\rho = 1$, write the value of the vector $\phi\rho$, and give the properties of the function ϕ .

8. Obtain the equation $\pi = \rho(1 + z) + zxa$ for the tangent to a parabola.

9. Prove that $V. Va\beta V\beta\gamma = -\beta Sa\beta\gamma$.

Spherical Trigonometry, &c.

1. Deduce the relations between a spherical triangle and its polar triangle.

Obtain the relation $\cos a = \cos b \cos c + \sin b \sin c \cos A$, and illustrate the use of the polar by deducing from this the complementary relation.

2. Given two sides and the included angle of a spherical triangle, find two logarithmic formulae for obtaining a fourth part.

3. State and explain the rule called "Napier's circular parts."

4. Give a short description of the four systems of coordinates employed in spherical astronomy.

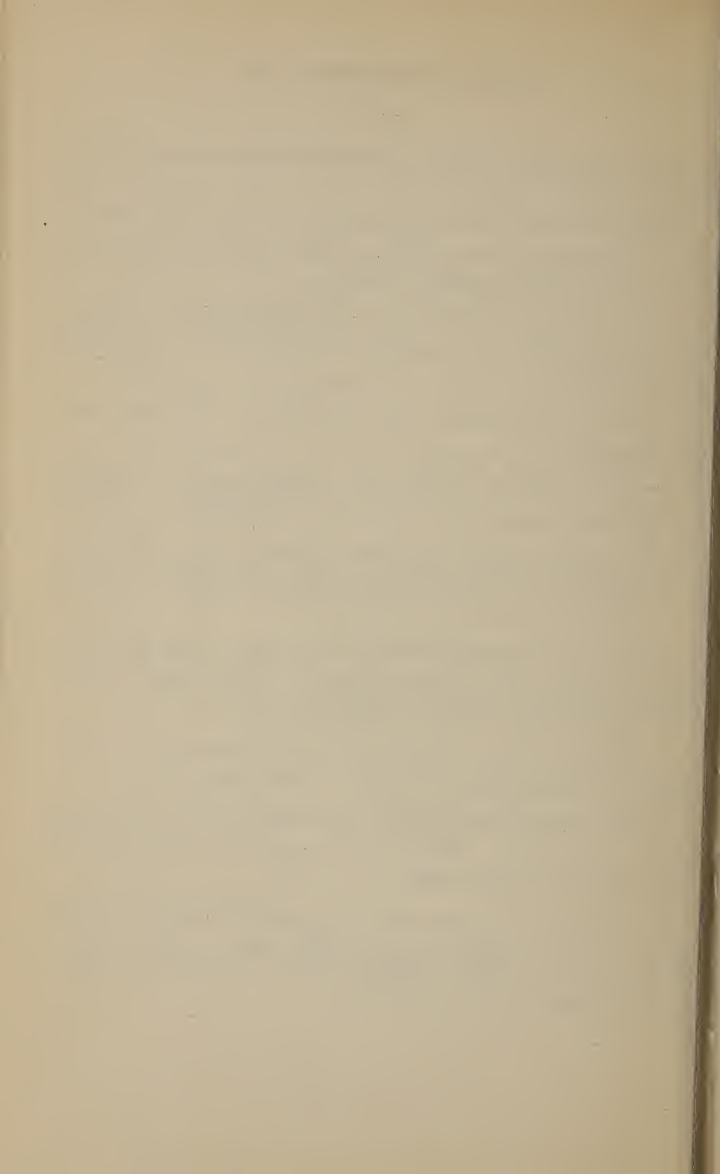
A star crosses the prime vertical at an altitude p and the meridian at an altitude m to find the star's declination and the latitude of the place.

5. Find an expression for the number of factors in a given number N , and show that if N be a square number the number of factors must be odd.

6. Obtain Wilson's theorem, and through it show that if n be prime $(n-2)! - 1$ is a multiple of n .

7. Five cards are drawn from a pack of 52, of which 12 are face cards. What is the probability that one at least may be a face card.

8. 120 peas are placed in a cup and a person empties some of them (which may be all) into a second cup. Find the probability that the whole number is a multiple of those in the second cup.



Integral Calculus.

1. Find the following integrals :

$$(a) \int \frac{1}{x} \sqrt{x^2 - a^2} \, , \quad (b) \int \frac{\sin \theta}{\cos^3 \theta} (\sin^2 \theta - \cos \theta)$$

$$(c) \int e^x x^4 dx.$$

2. Show that

$$\begin{aligned} \int \sin^m \theta. \cos^n \theta. d\theta = & - \frac{\sin^{m-1} \theta. \cos^{n+1} \theta}{m+n} \\ & + \frac{m-1}{m+n} \int \sin^{m-2} \theta \cos^n \theta. d\theta. \end{aligned}$$

$$\text{Integrate } \int_0^{\frac{\pi}{2}} \sin^n \theta. d\theta, \, n \text{ even.}$$

3. Obtain Taylor's theorem by Integration.

4. A semicircle revolves about a tangent to the middle point of the arc; find the volume of the solid generated.

5. Explain the constitution of the expression

$$\int_{x_1}^{x_2} \int_{y_1}^{y_2} \int_{z_1}^{z_2} dz. dy. dx.$$

for the volume of any solid.

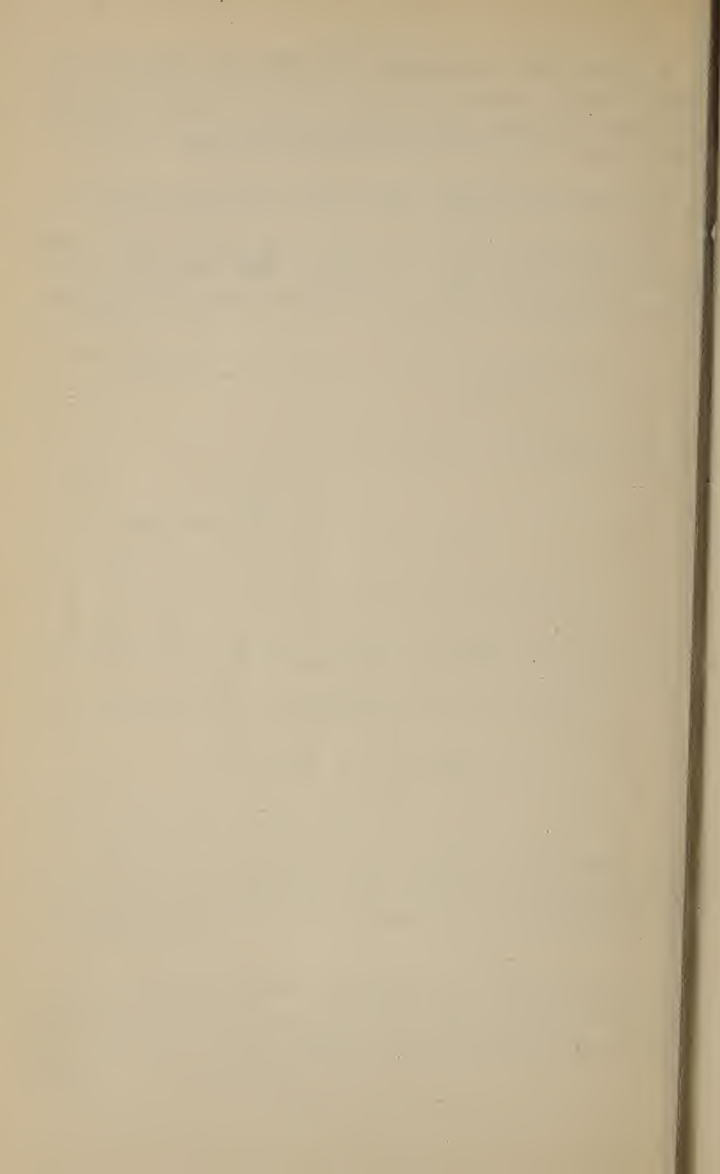
7. The arc of the pedal of an ellipse with the origin at any point O is greater than that of the pedal with origin at the centre C by one-half the area of the circle on OC as radius.

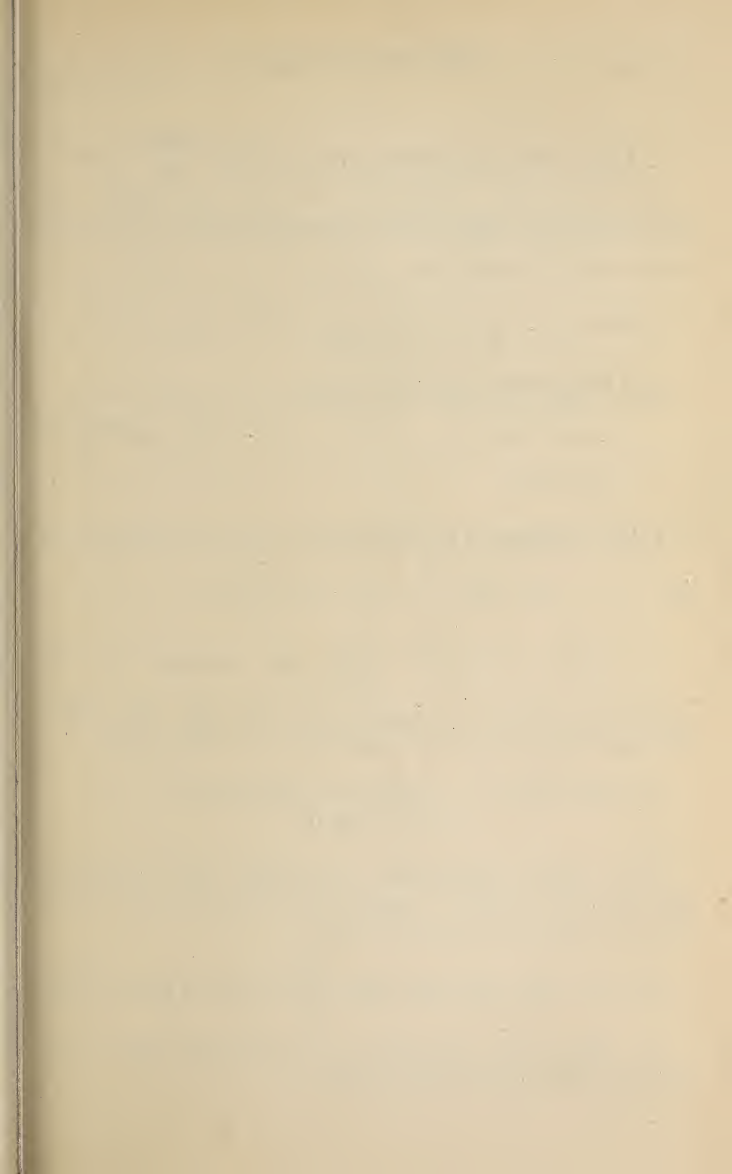
7. If A be the area of a lamina and \overline{y} be the distance of its mass centre from any axis, show that the volume generated by the revolution of the lamina about the axis is $2\pi \overline{y} A$.

8. Show that the moment of inertia of a body for any axis exceeds its moment of inertia for the parallel axis through the mass centre by the product of the mass into the square of the distance between the axes.

9. Given $du = (4xy + 1)dx + (2x^2 - 9y^2)dy$ to find u .

10. Find the equation to the curve for which the square on the abscissa is equal to the rectangle under the subtangent and the sum of the ordinate and abscissa.





Differential Calculus.

1. Prove without the binomial series that $\frac{dx^n}{dx} = nx^{n-1}$;
and without the logarithmic series prove that $\frac{d \log x}{dx} = \frac{m}{x}$
where m is the modulus.

2. When $y = \frac{1}{x}$ show that $dy \sqrt{1+x^4} + dx \sqrt{1+y^4} = 0$

3. Differentiate the following :

$$u = \tan (\sin^{-1} x) ; u = l(x + \sqrt{x^2 - a^2}) + \sec^{-1} \frac{x}{a} .$$

$$u = e^{x \sin x} .$$

4. The tangent at the point $x'y'$ on the curve $f(x, y) = 0$
is $(y - y') \frac{df}{dy} + (x - x') \frac{df}{dx} = 0$

In the curve $y^2 = \frac{a+x}{a-x}$ the ordinate to the
point from which a tangent passes through the origin
divides the parameter in extreme and mean ratio.

5. Find the p. r. equation to the cardioid

$$r = a(1 + \cos \theta).$$

9. A point constrained to remain on a parabola
moves with a uniform angular velocity about the focus.
Find its velocity along the curve.

7. If $u = \sin mx$, show that $\frac{d^n u}{dx^n} = m^n \sin \left(mx + \frac{n\pi}{2} \right)$

8. From the expression $x^2 + y^2 + 2gx + 2fy + c = 0$
eliminate the parameters g and f .

9. Develope Taylor's theorem, and from it deduce Maclaurin's.

10. Expan $\sin^{-1}x$.

11. Show that the area of a curve referred to rectangular axes is $\int y \cdot dx$, and find the area of the curve whose equation is $y^2 = \frac{x^2}{a^2 + x^2}$.

N.B.—Papers on methods in Conics, &c., will appear next year.

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Mental and Moral Philosophy.

First and Second Papers same as for Senior Philosophy.

THIRD PAPER

1. How far are Plato's objections to the Sophistical doctrine of Justice satisfactory ?

2. "The value of Justice depends upon its results." In what different senses would this be accepted by the ancient Sophist and the modern Utilitarian ?

3. How do you explain the fluctuation in Plato's views as to the value of Art ? Point out the relations of Art, Religion and Philosophy.

4. Interpret the simile of the Divided Line and the allegory of the Cave as set forth in the *Republic*.

5. How far does Aristotle give a true theory of the relations of Sense and Reason ?

6. "Mind must be unmixed with anything else, as Anaxagoras says, in order that it may master things." Compare with this saying of Aristotle Kant's criticism of Rational Psychology.

7. State and examine Aristotle's account of *φρόνησις*.

8. How far does Aristotle's idea of Courage fall short of the Christian idea ?

FOURTH PAPER.

1. Criticise the Cartesian opposition of Mind and Matter, Soul and Body.

2. How is Spinoza's view of Freedom connected with his logical doctrine that *Determinatio est Negatio* ?

3. Is Locke's account of our knowledge of God and of external things consistent with his view of the basis of knowledge?

4. State and examine Berkeley's explanation of external perception.

5. Explain Hume's distinction of Impressions and Ideas, and examine the use he makes of it in his theory.

6. Compare the ethical doctrines of Locke, Hume, Bentham, and J. S. Mill, and examine into the basis of Universalistic Hedonism.

7. Is it possible, while accepting the substantial truth of Kant's Deduction of the Categories, consistently to retain the conception of Logic as a purely formal science?

8. In what different ways is Kant led to the idea of a Perceptive Intelligence? Is his account of the nature of that Intelligence defensible?

FIFTH PAPER.

1. "Every proposition which is not reducible in the last resort, to the simple statement of a fact, particular or general, must be without real or intelligible sense." Examine this saying of Comte.

2. Can the Philosophical Scepticism which denies that the Absolute is knowable consistently hold that any knowledge is possible?

3. "What Mind is in itself as a substance is a question that lies outside of Psychology, and belongs to Philosophy." Is this a valid distinction?

4. "Mind is non-material, has no existence in space, and its phenomena occur in time only." Can Mind be legitimately opposed in this way to "what is not Mind?"

5. In what sense can it be said that mental facts depend on nervous conditions?

6. "Pleasure-giving are at the same time life-preserving acts." Granting this to be true, is Spencer right in saying that the End is therefore Pleasure?

7. How far may the final form of society be anticipated? Is it likely that in it the functions of government will be more limited than now?

8. Explain and examine the general method by which Hartmann seeks to show that in all modes of activity Unconscious Will is implied.

SIXTH PAPER.

1. Is Hartmann's account of Motive, Will and Character satisfactory?

2. State and criticise Hartmann's proof of Pessimism.

3. "Even the Pessimist must admit that the End is a surplus of agreeable feeling." Examine this.

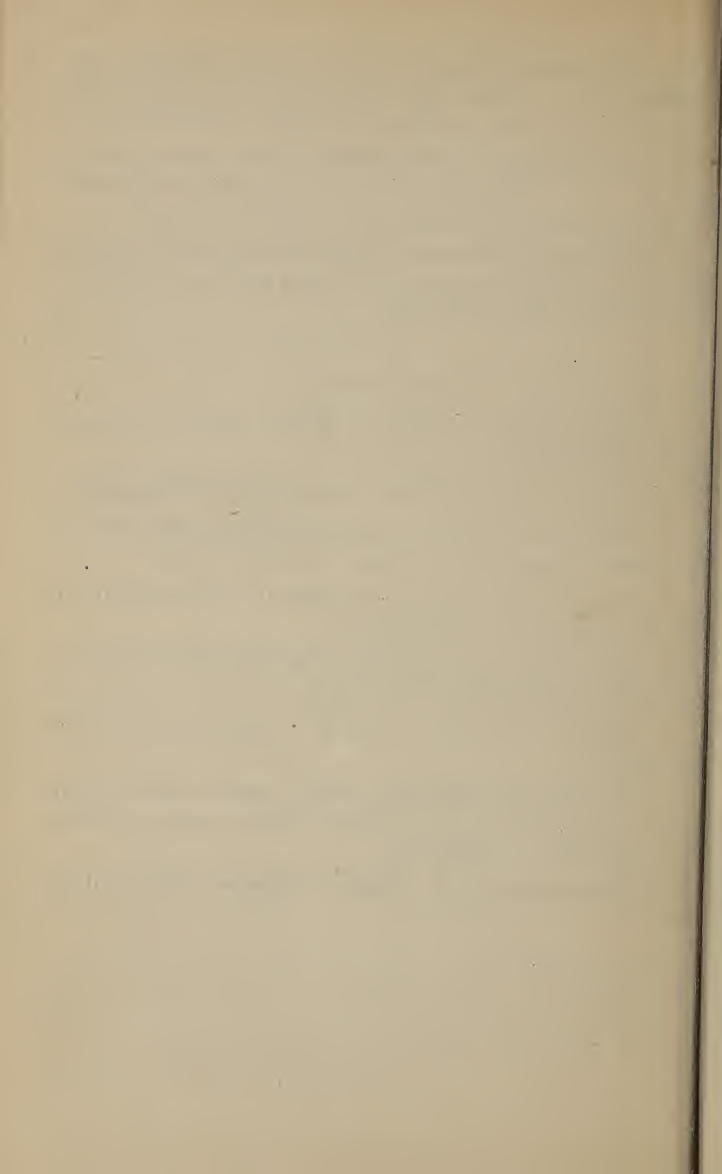
4. Compare the views as to human development of Hegel, Spencer and Hartmann.

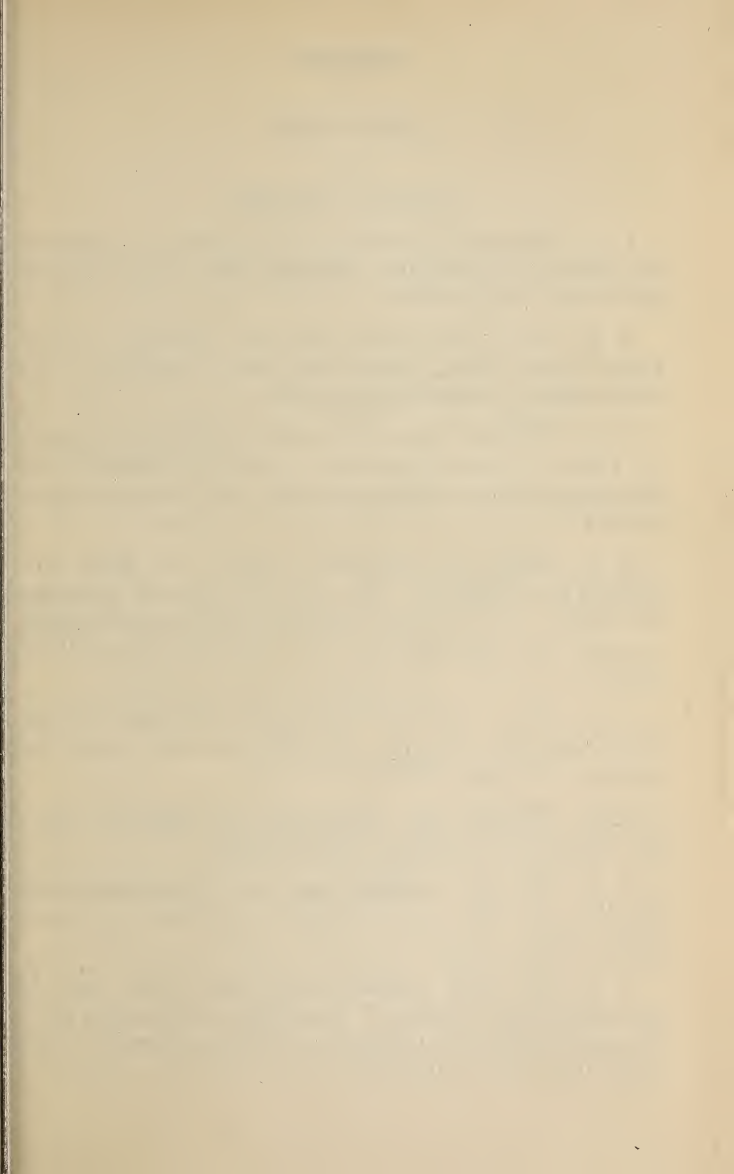
5. Give historical illustrations of the relation of Religion to national life.

6. Criticise the theory that our moral judgments are intuitive.

7. Examine the theories which resolve Moral Evil into (*a*) imperfection or negation, (*b*) the power of sense and appetite, (*c*) selfishness.

8. Give and criticise different theories of Penal Justice.





Chemistry.

FIRST PAPER.

Organic Chemistry.

1. (a) Discuss the relation of *quinoline* to benzene. (b) Show by structural formulas that two isomeric quinolines are possible.

2. By what means have chemists obtained a knowledge of the *ortho*, *meta*, and *para*, relations in the substitution products of benzene?

3. (a) How are *nitro-substitution* products prepared? (b) Given a *mononitrotoluene*; how is it possible to determine whether it belongs to the *ortho*, *meta*, or *para* series?

4. (a) What are *sulphonic acids*? (b) What substances are formed by the action of nascent hydrogen on them? (c) By what reactions can *benzene-disulphonic acid* be transformed into the corresponding *phthalic acid*?

5. (a) Show how *benzoic acid* can be made by *synthesis* from the elements. (b) What are the commercial sources of benzoic acid?

6. (a) What is the composition of *salicylic acid*? (b) Give *three* methods of preparing it.

7. (a) By what method can *urea* be prepared artificially? (b) Show its relations to carbonic and parabanic acids.

8. (a) By what reactions can *hydracrylic acid* be prepared from *ethylene*? (b) What conclusions as to the structure of the molecule of hydracrylic acid do you draw from this synthesis?

Chemistry.

SECOND PAPER.

Organic Chemistry.

1. Describe *two* general methods for preparing ethereal salts, mentioning the classes of salts to which each is applicable.

2. (a) What is the relation of *glycocoll* to acetic acid? (b) How can *glycocoll* be prepared from acetic acid? (c) What substances are formed by the action of nitrous acid on *glycocoll*?

3. Describe the chemical actions which establish the relations between *succinic* and *isosuccinic* acids.

4. What reactions serve to distinguish (a) between *cyanides* and *isocyanides*, and (b) between *nitrites* and *nitro-substitution products*?

5. (a) How is *chloral* prepared? (b) Discuss its relation to aldehyde and to chloroform.

Crystallography.

6. Indicate the ratios of the axes for the following forms of the *cubic system*: *cube*, *triakisoctahedron* (three-faced octahedron), *deltahedron*, *tetrahedron*, and *tetrahexahedron* (four-faced cube).

7. Give a scheme of the holohedral forms of the *hexagonal system*, using symbols. Explain the symbols.

8. Describe the following forms of the *rhombic system*: *rhombic prism*, *brachydoma*, *macropism*, *macropinakoid*, and *basal pinakoid*.

Natural Science—Second Year.

FIRST PAPER.

1. Give a list of terms employed to describe leaves.
(1) As to the Base, (2) Margin, (3) Apex.
2. Mention the organs of a Phænogamous plant, and state the uses of each.
3. The wood of our trees shows annual layers. Explain how these can be distinguished.
4. Leaves are modified to serve special offices. Give a short account of each modification.
5. Give the morphological structure of the Pistil. Explain how the following are formed :—
 - (1) Syncarpous Pistil with many Cells and Axile Placentation.
 - (2) The same with one Cell and Parietal Placentation.
 - (3) The same with one Cell and Free Central Placentation.
6. How is anteposition explained in Isostemonous Flowers ?

SECOND PAPER.

1. Describe the movements of (1) Naked Protoplasm, (2) Protoplasm enclosed in a Cell-wall.
2. How are the appearances of Stratification and Striation accounted for ?
3. Define the terms :—Raphides, Cystoliths, Collenchyma, Primary Meristem, Xylem, Tracheides, Spurious Tissue, Hypoderma, Phyllome, Thallome.
4. What causes produce the movement of water in plants ?

5. What effects has the presence or absence of (1) Iron, (2) Light upon the production of Chlorophyll?

6. Write notes on the different methods by which Cross-fertilization is secured.

THIRD PAPER.

1. Give the general characters of the following families of plants:—(1) Ranunculaceæ, (2) Leguminosæ, (3) Rosacæ, (4) Liliaceæ.

2. Describe fully one species belonging to each of these families.

3. Write out a list of such plants as you know belonging to (1) Ranunculaceæ, (2) Cruciferæ, (3) Leguminosæ.

4. Describe the different modes of Dehiscence of Pericarps.

FOURTH PAPER.

1. Give the general characters of (1) Teleostei, (2) Elasmobranchii.

2. State the difference between the mode of origin of the digestive cavity in Amphioxus and in the Selachians.

3. Describe as fully as you can the bones in the head of *Gadus Morrhua*.

4. Describe (1) the different forms of tail, (2) the different forms of scales among Fishes.

5. Describe the circulatory organs of a Teleost.

6. Describe the vertebral column and Pelvic girdle of a Frog.

FIFTH PAPER.

1. Give the general characters of Sauropsida.

2. Where may the Syrinx be developed, and in what classes of Birds is it wanting?

3. Describe the Pelvic bones of a Crow.
 4. Describe the origin and growth of Teeth in Vertebrates, and explain the dental formula.
 5. Describe the Carpal and Metacarpal bones of a Horse.
 6. Give a list of the Bones in the Human Skull, and describe one Cervical and one Dorsal vertebra.
-

SIXTH PAPER.

1. Name the extensor muscles of the Cat's Manus, giving their origin and insertion.
 2. Describe as carefully as you can the following parts of the skeletons before you giving the name of the animal in each case:—
 - (1) The vertebral column of the Mammal.
 - (2) The wing of the Bird.
 - (3) The head of the Amphibian.
 - (4) The Carapace and Plastron of the Chelonian.
-

SEVENTH PAPER.

1. Define the following terms:—Prairies, Pampas, Plateaux, Watershed, River System, Dew-point, Fauna, Isothermal line, Barometric pressure, Neap-tide.
2. How can the Boiling point of water be used as a means of ascertaining the height of mountains?
3. What districts on the earth's surface are sunk beneath the level of the sea? Why do they not fill with water?
4. Explain the origin or cause of the following phenomena:—(1) Trade-winds, (2) Monsoons of India, (3) Spring-tides, (4) Mineral Springs, (5) Fog, (6) Counter-trades, (7) Why the Western sides of Continents in the

Northern hemisphere are warmer than the Eastern sides, (8) White or Hoar Frost.

5. Mention the principal agents that modify climate, giving some example or illustration of each.

EIGHTH PAPER.

1. State the object which Lyell had in view in writing the "Principles of Geology."

2. The work is divided into three Books, state somewhat fully the subject dealt with in each Book.

3. What prejudices hindered the progress of Geology at the beginning of the present century?

4. How does Lyell account for changes in climate?

5. It was formerly believed that the igneous forces were more intense in early geologic times than at present. What were the reasons for this belief and how does Lyell refute them?

6. Write notes on the agencies which effect the distribution of plants.

NINTH PAPER.

1. How do you account for the following kinds of structures of layers of rocks:—(1) Ebb-and-flow structure.

(2) Beach structure.

(3) Slaty structure.

2. What difficulties do Geologists encounter in the attempt to make out the chronological order of Strata?

3. "Amidst all these sources of difficulty, how is the true order ascertained?"

4. Give in tabular form the subdivisions of the Silurian, and mention the characteristic features of each subdivision, noting also some locality in Canada where each occurs.

Natural Science—Third Year.

FIRST PAPER.

1. You have before you a bundle of 30 species of plants without labels. Make a list of them, giving botanical name and the order to which each specimen belongs.

2. Describe one specimen belonging to each of the following orders, giving (1) the characters of the Order, (2) of the Genus, (3) of the Species :

- (1) Ranunculaceæ.
 - (2) Caryophyllaceæ.
 - (3) Labiataæ.
 - (4) Liliaceæ.
 - (5) Cyperaceæ.
-

SECOND PAPER.

1. Describe as fully as you can (1) Desmidiaceæ, (2) Diatomaceæ, noticing the points of similarity and difference in the modes of reproduction.

2. "A lichen is not an individual plant, but rather a community made up of two kinds of individuals." Explain this statement and give the reasons for holding it.

3. Describe the reproductive organs (1) of the Musci, (2) Filices.

THIRD PAPER.

1 Write out a list of plants, native or introduced, growing in Canada, valuable for

- (1) Roots.
- (2) Stems.
- (3) Bark.
- (4) Leaves.
- (5) Flowers.
- (6) Seeds.

2. Explain the process of growth by Intussusception and account for the striated appearance of starch grains.

3. Divide Europe or America into Botanical Provinces and give list of plants peculiar to each Province.

4. At what geological formation or period are the following families of plants first found? (1) Lycopodiaceæ, (2) Cyads, (3) Coniferæ, (4) Equisetaceæ, (5) Angiosperms.

FOURTH PAPER.

1. Describe carefully the skeleton of a horse's fore leg and foot, and compare it with the corresponding limb of man.

2. Describe the vertebral column of the Cat, noticing specially the peculiarities of (1) a cervical, (2) a dorsal, (3) a lumbar vertebra.

3. Give the origin and insertion of the muscles attached to the cat's scapula.

4. Compare the skeleton of a crow's wing with the corresponding limb of man.

5. Trace the Embryological history of the chicken during the period of incubation.

FIFTH PAPER.

1. What are the general characters (1) of Foraminifera, (2) Radiolaria, and the points of difference between them?

2. What part are the Foraminifera said to play in the formation of (1) Calcareous Ooze, (2) Green Sand, (3) Red Clay.

3. Give an account of the (1) Morphology, (2) Embryology of the sponge *Ascetta Primordialis*.

4. Write notes on the following subjects :

- (1) The Respiratory Organs of Insects.
 - (2) Agamogenesis in Insects.
 - (3) Sounds produced by Insects.
 - (4) Parasitism of Insects.
-

SIXTH PAPER.

1. "It was long thought that the manner in which the various kinds of animals are dispersed over the globe is almost wholly due to diversities of climate and of vegetation." (1) What phenomena favor this belief? (2) Why is this not a sufficient explanation?

2. What agencies or circumstances favor the dispersal of (1) Mammals, (2) Birds, (3) Fishes. Explain the operation of each.

3. What barriers prevent the dispersal of (1) Mammals, (2) Reptiles, (3) Insects.

4. Describe Wallace's zoological regions and give his reasons for adopting them.

SEVENTH PAPER.

1. Describe the structure of (1) a small artery, (2) the capillaries.

2. Give an account of the following organs:—(1) Vena Cava, (2) Aorta, (3) Coronary Arteries, (4) Vena Portæ, (5) Ventricle, (6) Auricle, (7) Thoracic Duct, (8) Chyle.

3. Explain (1) the beating of the heart, (2) why there is no pulse in the veins, (3) how a blush is produced.

4. Describe the process of Respiration and the action of the Intercostal Muscles.

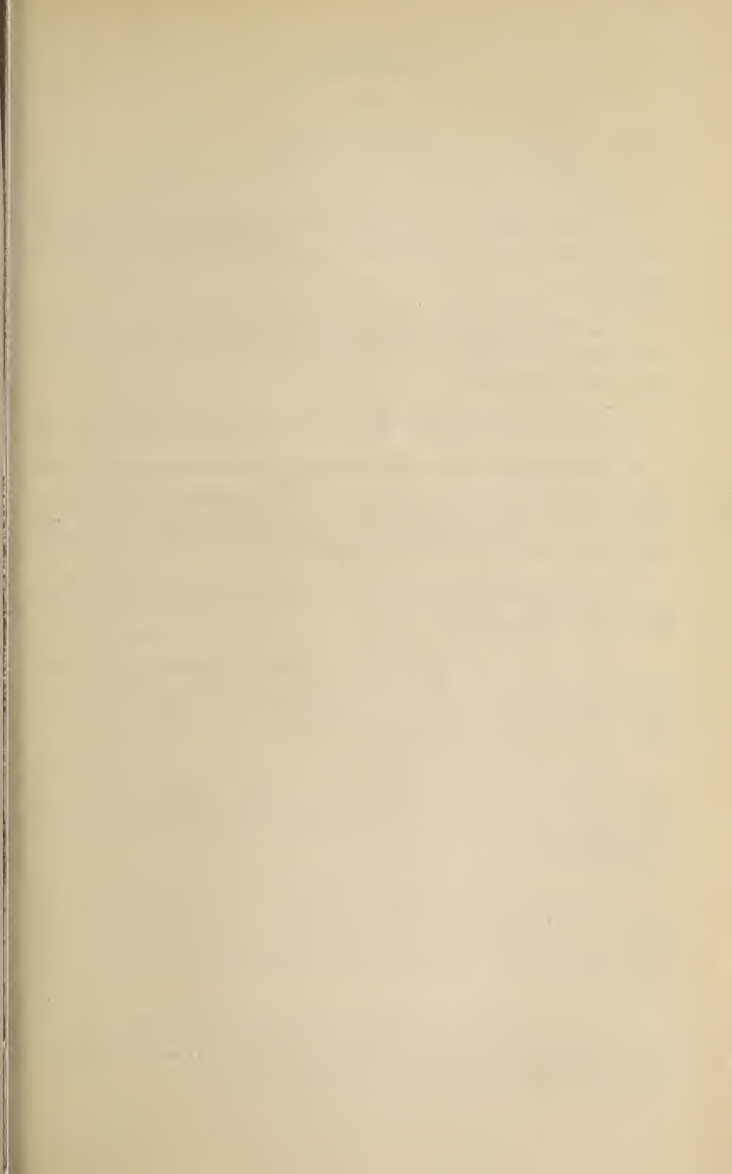
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History.

FIRST PAPER.

1. Prove that the English Language and the English Constitution are developed from pure unmixed Teutonic materials.

2. Explain the following terms and state the relative importance of each :—Tithing, Burh, Wapentake, Riding, and Carucate.

3. State the powers and duties of the Witenagemote.

4. Stubbs describes the development of Anglo-Saxon institutions in these words : “ The general tendency of the process may be described as a movement from the personal to the territorial organization.” Explain this.

5. Trace the growth of the Royal Power before the Norman Conquest.

6. Point out the relation of the Church and State during the same period ; stating the powers of the Church Councils and of the Bishops.

6. Mention any traces of the Feudal System in England before the Norman Conquest. Why after the Norman Conquest did the System acquire so little power in England ?

8. Explain the struggle with the Feudatories in the reign of William Rufus, and their humiliation under Henry I. How was this accomplished, and what were the results ?

9. Give a short outline of the administration under the Norman Kings in regard to the Courts, the King's Household, and the National Council.

1. Describe the rise of the English Guilds. What were the relations of the Merchant Guild to the Craft-Guilds, and also to the Communa? What is meant by Adulterine Guilds?

2. Stubhs says of the earlier Angevin period, "The period is one of amalgamation. The nation becomes one and realizes its oneness." Explain this.

3. Explain what is meant by an Assembly of Estates in contrast to local representation. Point out the growth of the Clerical Estate. What was the tendency to an Estate of Lawyers, and also of Merchants?

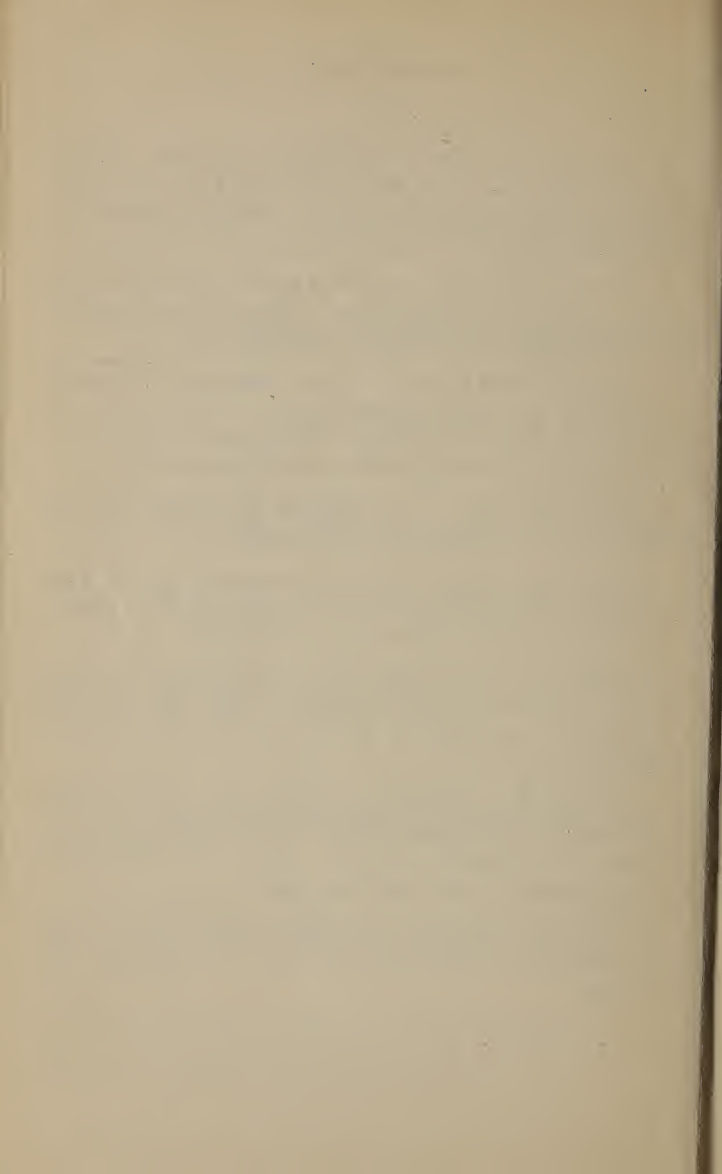
4. State the form of the election of Knights of the Shire and also of Members of Boroughs.

5. State the period of the separation of the two Houses of Parliament and of the union of the Knights of the Shire with the Members of Boroughs.

6. What was the relation of Convocation to Parliament, and what was the form of the summons to Convocation, and also of the Clerical element to Parliament?

7. In the latter half of the 13th century the Baronial Estate underwent a great change, from qualification by tenure to qualification by writ. How may hereditary peerage be said to emerge from this?

8. Point out the power of the County Courts in the 13th century, (1) Judicial, (2) Fiscal, (3) Military, (4) Remedial.



History.

THIRD PAPER.

1. Explain fully the theory of the Social Contract of Rousseau, and point out its errors.

2. Guizot classifies the views regarding government under two heads. (1) "There are those which attribute sovereignty as a right belonging exclusively to individuals whether one or many." (2) "Sovereignty belongs as a right to no individual whatever, but to the fixed and inviolate application of justice and reason." Criticise this, explaining fully.

3. What principles are common to a democracy and an aristocracy? State also wherein they differ from one another, and alike differ from representative government.

4. "The sovereignty of the people sees legitimate power in the multitude; representative government sees it only in unity." Explain this.

5. What are the forms essential to representative government?

6. Show the fallacy of Rousseau's axiom, "No one is bound to obey laws to which he has not given his assent."

History.

FOURTH PAPER.

1. An Act was passed in Henry V. reign which required every city and borough to elect none but members of their own community. Mention any subsequent action affecting this act, and state arguments pro or con.

2. What acts were passed under Elizabeth against the Catholics? What circumstances called forth those acts?

3. On the occasion of the Ferrers case in Elizabeth's reign, the Commons took the opportunity of asserting their privileges. State these privileges.

4. What were the grounds of the impeachment of the five members in Charles I. reign. Mention the circumstances of their attempted arrest.

5. State the character of the Irish Parliament before the union, and also the circumstances which brought about the union.

6. What circumstances led to the revolt of the American colonies?

7. What were the Corporation and Tests Acts? When were they repealed?

8. What was the state of the representation before the passing of the Reform Bill of 1832?

English.

FIRST PAPER.

1. Translate :

Beowulf, ch. xxxiv., ll. 2418-2460.

2. Parse the following words, tracing them to their roots, and giving the exact English equivalent :—gesaet, gadaelan, ganaes, gemon, geaf, gemunde, ungedefelice, stred, geswencte, ofscet, gesyngad, unwrecen, linnan, gemyndgad, gymeth, gefondad, sorh'-cearig.

3. Anglo-Saxonica. Judith, pa. 150. Her'ys geswutelod, to frea Ælmihtig.

4. Parse geswutelod, werig-ferhthe, lyfdon, gedysod.

5. Who was Beowulf, and also Hygelac?

SECOND PAPER.

1. Translate :

From Anglo-Saxonica, p. 62, Cuthbertus se halga, &c.

2. Parse onette, ancer-setle, drohtnode, gelegered, lithebige.

3. Translate :

p. 180, Tha comen tha tidende, &c.

4. Parse, giving Anglo-Saxon roots, idæied, buten, itholien, binothen, duden.

5. Compare this story with Shakespeare's King Lear.

THIRD PAPER.

1. Chaucer, Nonne Preste's Tale, ll. 385-529. Explain the following sentences, and any allusions ; point out any peculiarities of grammar, and give derivation of words in italics :

As is the book of Launcelot the Lake.

A *cole-fox*, full sleigh of iniquité.

woned yeres thre.

By heigh ymaginacioun *forncast*.

The same nighte thurgh the hegge *brast*.

And in a bed of *wortes* stille he lay,
Till it was passed undern of the day.

O newe Scariot, newe Genilon !
Fals[e] dissimulour, O Greke Sinon.

That thou into the yerd flough fro the bemys !

But what that God *forwot* most[e] *needes* be

But yit I can not *bult* it to the *bren*,
As can the holy doctor Augustyn,
Or Boece, or the bischop Bradwardyn,
Whether that Goddis worthy *forwetyng*
(Needely clepe I simple *necessité*).

Red auctours, wher *thay* trete of such matiere,

Lith Pertelot, and alle hir sustres by.

No thing ne *list* him thanne for to crowe

For trewely ye have als mery a steven.

I have wel *rad* in *dawn* Burnel *thasse*.

Allas ! ye lordlynges, many a fals flatour
Is in your hous, and many a *losengour*.

Redith Ecclesiast of flaterie.

And daun Russel the fox stert up at oones,
And by the *garget hente* Chaunteclere.

For *yit* was there no man that [hadde] him *sewed*.
O desteny, that maist not been *eschtiwed* !

Allas, his wif ne *roughte* nought of dremis !

O Gaufred, dere mayster soverayn.

Than wold I schewe how that I couthe pleyne,
For Chauntecleres drede, and for his peyne.

2. Faery Queene, Book I., Canto 1, st. 29-37. Explain fully the following expressions, and especially any allusions, and give the derivation of words in italics :

An aged sire in long blacke *needes* yclad.

He faire the knight saluted, *louting* low,
Who faire him *quited*, as that courteous was.

Silly old man, that lives in hidden cell,
Bidding his *beades* all day for his trespas.

With holy father *sits not* with such things to mell.

Of a straunge man I can you tidings tell,
That wasteth all this country farre and neare.

Far hence (quoth he) in wastfull wildernesse
His dwelling is by which no living wight
May ever passe, but thorough great distresse.

And well I *wote*, that of your later fight
Ye all *forwearied* be.

The sunne that measures heaven all day long,
At night doth *baite* his steedes the ocean waves among

Untroubled night they say gives counsell best.

There was an holy chappell edifyde.

Rest is their feast, and all thinges at their will.

3. Also, Book I., Canto 10, st. 17-27 :

Ye both *forwearied* be : therefore a whyle
I *read* you rest, and to your bowres *recoyle*.

Faire Una gan Fidelia faire request,
To have her knight into her schoolehouse plaste.

And, wnen she *list* poure out her larger *spright*.

And mortall life gan *loath*, as thing *forlore*.

And streightway sent with carefull diligence,
To fetch a *leach*.

Which had passing *prief*.

And bitter Penance, with an yron whip,
Was wont him once to disple every day.

And sad Repentance used to *embay*,
His bodie in salt water smarting sore.

4. Explain the forms *eftsoones*, *amidde*s, *ared*, *ywrit*, *oones*, *herkne*.

5. Distinguish between remorse, penance, and repentance.

6. Whom do *Una*, *Caelia*, *Fidelia*, and *Speranza* represent?

7. Give a short sketch of the first two books of the *Faery Queene*.

8. Milton's Ode on the morning of Christ's Nativity.

Explain :

The *Lars* and *Lemures* moan with midnight plaint.

With that twice batter'd god of Palestine.

The *Lybic Hammond* shrinks his horn.

Isis and *Orus* and the dog *Anubis*, haste.

Nor *Typhon* huge ending in snaky twine.

FOURTH PAPER.

Write an essay on one of the following subjects :

(a) *Milton*.

(b) *Spenser*.

(c) A comparison of *Tennyson* with *Longfellow*.

French.

I.

Translate :

LE MASQUE.

— “ Quoi qu'il puisse advenir,
Quand tu voudras, vieillard, quel que soit le lieu, l'heure,
S'il te passe à l'esprit qu'il est temps que je meure,
Viens, sonne de ce cor, et ne prends d'autres soins.
Tout sera fait.”—Ce pacte eut les morts pour témoins.
Hé bien ! tout est-il fait ?

HERNANI, à voix basse.
C'est lui !

LE MASQUE.

Dans ta demeure
Je viens, et je te dis qu'il est temps. C'est mon heure.
Je te trouve en retard.

HERNANI.

Bien. Quel est ton plaisir ?
Que feras-tu de moi ? Parle.

LE MASQUE.

Tu peux choisir
Du fer ou du poison. Ce qu'il faut, je l'apporte.
Nous partirons tous deux.

HERNANI.

Soit.

LE MASQUE.

Prions-nous ?

HERNANI.

Qu'importe ?

LE MASQUE.

Que prends-tu ?

HERNANI.

Le poison.

LE MASQUE.

Bien ! donne-moi ta main.

(Il présente une fiole à Hernani qui la reçoit en pâissant.)
Bois, pour que je finisse.

(Hernani approche la fiole de ses lèvres, puis recule.)

Victor Hugo, Hernani.

1. Distinguish *quoi que* from *quel que* and *quoique*—*apporter* from *amener*.

2. *Ce pacte*. Where was this made and with whom?

3. Give the etymology of *lieu*, *heure*, *cor*, *poison*, *lèvres*.

4. Give an account of the Romantic movement and its chief representatives, and mention the part taken by Victor Hugo in this movement.

II.

Translate :

ÆMILIE.

Grâces aux dieux, Cinna, ma frayeur était vaine ;
Aucun de tes amis ne t'a manqué de foi,
Et je n'ai point eu lieu de m'employer pour toi.
Octave en ma présence a tout dit à Livie,
Et par cette nouvelle il m'a rendu la vie.

CINNA.

Le désavouerez-vous ? et du don qu'il me fait
Voudrez-vous retarder le bienheureux effet ?

ÆMILIE.

L'effet est en ta main.

CINNA.

Mais plutôt en la vôtre.

ÆMILIE.

Je suis toujours moi-même, et mon cœur n'est point autre ;
Me donner à Cinna c'est ne lui donner rien,
C'est seulement lui faire un présent de son bien.

CINNA.

Vous pouvez toutefois . . ô ciel ! l'osé-je dire ?

ÆMILIE.

Que puis-je ? et que crains-tu ?

CINNA.

Je tremble, je soupire,
Et vois que, si nos cœurs avaient mêmes désirs,
Je n'aurais pas besoin d'expliquer mes soupirs.
Ainsi je suis trop sûr que je vais vous déplaire ;
Mais je n'ose parler, et je ne puis me taire.

Corneille, Cinna.

1. Parse *voudrez, crains, taire*.

2. *Frayeur*. Mention the nouns in—*eur* that are masculine. Account for these exceptions to the general rule.

3. Give the etymology of *aucun, donner, même, trop, sûr, gêner*.

III.

Translate :

SCAPIN.

Hé bien ! Sylvestre, que font nos gens ?

SYLVESTRE.

J'ai deux avis à te donner. L'un, que l'affaire d'Octave est accommodée. Notre Hyacinthe s'est trouvée la fille du seigneur Géronte ; et le hasard a fait ce que la prudence des pères avait délibéré. L'autre avis, c'est que les deux vieillards font contre toi des menaces épouvantables, et surtout le seigneur Géronte.

SCAPIN.

Cela n'est rien. Les menaces ne m'ont jamais fait mal : et ce sont des nuées qui passent bien loin sur nos têtes.

SYLVESTRE.

Prends garde à toi. Les fils se pourraient bien raccommo-der avec les pères, et toi demeurer dans la nasse.

SCAPIN.

Laisse-moi faire, je trouverai moyen d'apaiser leur courroux, et.

SYLVESTRE.

Retire-toi, les voilà qui sortent.

Molière, Les Fourberies de Scapin.

1. Give the gender of *gens, avis, menaces, têtes*, and state which of these nouns are used in both numbers.

2. *Dans la nasse*. To what English phrase is this equivalent ?

3. *Laisse-moi*. Why is *me* not used ?

4. From whom has Molière taken the plot of this comedy ?

IV.

Translate :

ELMIRE.

Quel homme ! Au moins, répondez-moi.
Je ne vous parle pas de nous ajouter foi ;
Mais supposons ici que, d'un lieu qu'on peut prendre,
On vous fit clairement tout voir et tout entendre :
Que diriez-vous alors de votre homme de bien ?

ORGON.

En ce cas, je dirais que . . . Je ne dirais rien,
Car cela ne se peut.

ELMIRE.

L'erreur trop longtemps dure,
Et c'est trop condamner ma bouche d'imposture.
Il faut que, par plaisir, et sans aller plus loin,
De tout ce qu'on vous dit je vous fasse témoin.

ORGON.

Soit. Je vous prends au mot. Nous verrons votre adresse.
Et comment vous pourrez remplir cette promesse.

ELMIRE, à Dorine.

Faites-le-moi venir.

DORINE, à Elmire.

Son esprit est rusé,
Et peut-être à surprendre il sera malaisé.

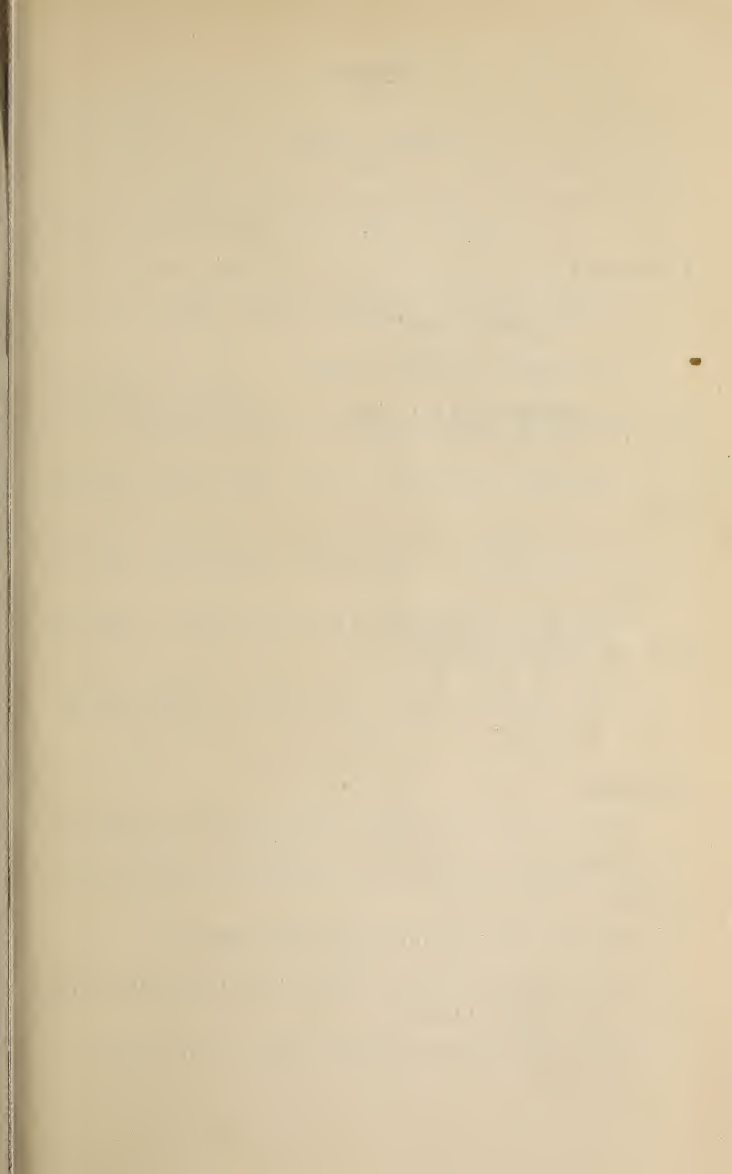
ELMIRE, à Dorine.

Non ; on est aisément dupé par ce qu'on aime,
Et l'amour-propre engage à se tromper soi-même
(à Cléante et à Mariane.)

Faites-le moi descendre. Et vous, retirez-vous.

Molière, le Tartuffe.

1. Parse *fût*, *verrons*, *pourrez*.
2. *Son esprit est rusé*. To whom does this refer ?
3. What is the etymology of *Tartuffe* ?
4. What are the merits and defects of Molière's comedies ? To what are these defects in part due ?



French.

SECOND PAPER.

I.

Translate :

Corneille, *Le Cid*, Act II., Scene 8, from "Sire, de trop" to "si grand attentat,"

1. Parse *suivie*, *souffrez*, *éteint*.
2. Distinguish *déjà* from *encore*, *vient de ravir* from *vient à ravir* and *vient ravir*.
3. Give the etymology of *sire*, *trop*, *sans*, *bouche*, *venger*.
4. To what part of Corneille's career does the *Cid* belong?
5. What is the meaning of the word *Cid*? Has the play any historic basis?
6. Point out the beauties and defects in this tragedy.

II.

Translate :

Victor Cousin, p. 190-2, from "Aussi quand" to "si solennel."

1. Distinguish *quand* from *lorsque*, and give the etymology of both words.
2. Explain the subjunctives in the extract.
3. *Salamine et Platée*. When and between whom were these battles fought?
4. What philosophical system did Cousin adopt?

III.

Translate :

Vinet, Blaise Pascal, p. 195, from "Voilà" to "s'être trompés."

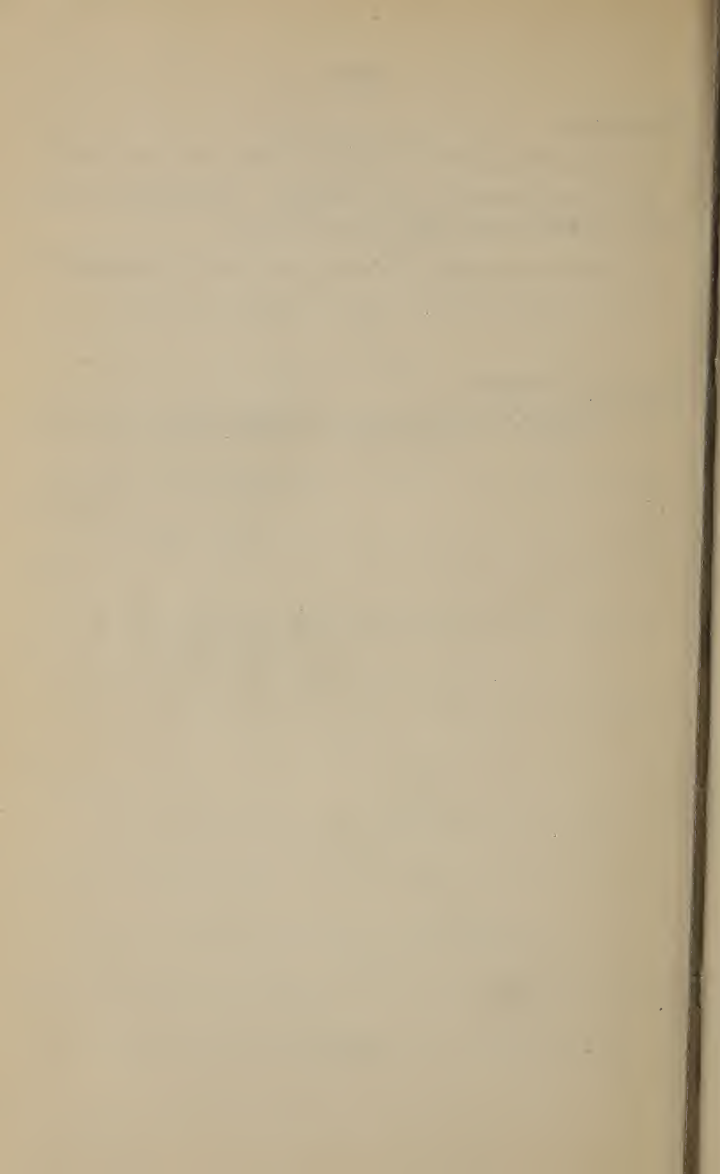
1. *Ils craignent de s'être trompés.* Substitute a sentence commencing with *que* for *de*, &c.

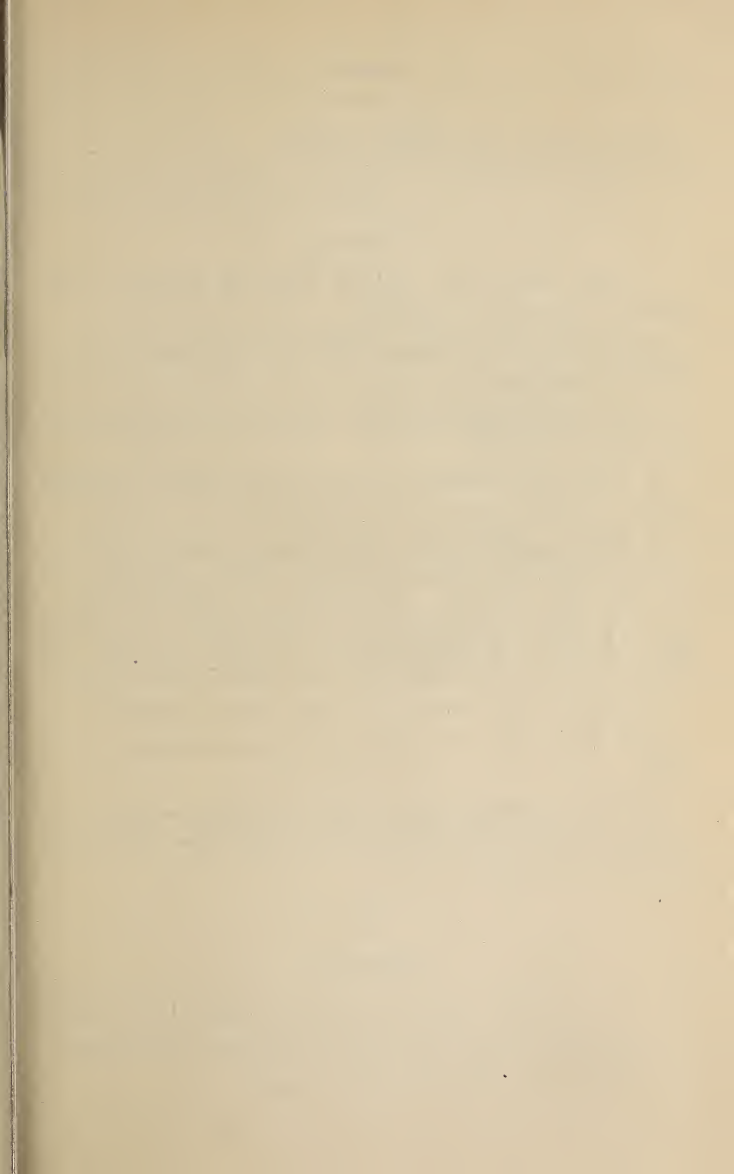
2. Give an account of Pascal and his chief works.

IV.

Translate at sight :

Théophile, Gautier, *Voyage en Espagne*, from "Grâce à la dame" to "tables de jeu."





French.

THIRD PAPER.

I.

Philology.

1. Into what four periods may the history of the French language be divided ?

2. Mention the earliest literary monuments of the French language.

3. Give the etymology of the words *Langue d'Oc*, and *Langue d'Oïl*.

4. Name the dialects of the *Langue d'Oïl*, and state which of them gained the predominance and why.

5. State and illustrate some laws governing the formation of French derivatives from Latin originals.

6. In what respect did Old French differ from Modern French as to declension ? Account for the fact that the plural of French nouns is formed by adding *s*.

7. Explain the formation of the French future.

8. Write notes on the forms : *le, franchement, grand' mère*.

9. Give the etymology of the following words : *oui, même, mais, blé, dimanche, époux, août, foie, lierre, âge, lendemain, trouver*.

II.

Literature.

1. Describe the state of literature under Louis XIV.

2. Sketch the life and works of Racine and Molière.

3. What are Fénelon's chief works ?

4. What were the relations of Boileau to the literature of the age in which he lived?

5. By whom were the following works written : *Pensées*, *Caractères*, *Histoire des Variations*, *Le Joueur*, *Fables*, *Princesse de Clèves*?

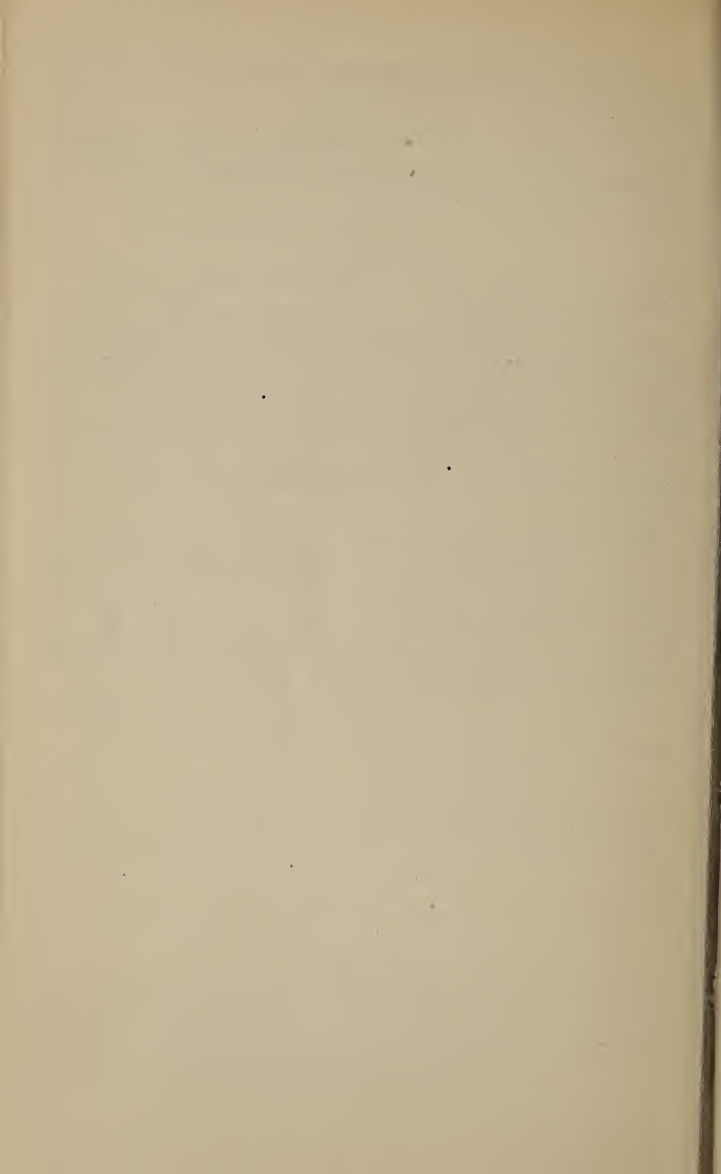
III.

Translate into French :

Napoleon understood his business. He was a man who in each moment and emergency knew what to do next. This is an immense comfort and refreshment to the spirits, not only of kings, but of citizens. Few men have any next ; they live from hand to mouth, without plan, are ever at the end of their line, and, after each action, wait for an impulse from abroad. Napoleon would have been the first man of the world, if his ends had been purely public. As he is, he inspires confidence and vigour by the extraordinary unity of his action.

He is firm, sure, and self-denying ; he sacrifices everything to his aim—money, troops, generals, his own safety even, and is not misled, like common adventurers, by the splendour of his own means. " Incidents ought not to govern policy," he said, " but policy incidents." " To be hurried away by every event is to have no political system at all." His victories were only so many doors, and he never for a moment lost sight of his way onward in the dazzle and uproar of the present circumstances. He knew what to do and he flew to his mark.

Emerson.



German.

FIRST PAPER.

I.

Translate :

Goethe, *Faust*, 1254–1295.

1. Ein Halbgott. Who ?
2. Mächtiger der Erdenböhe. What cases have we here ? For what does mächtiger stand ?
3. How is prächtiger used ?
4. To what time does tönen refer ?
5. Dieß. Account for this form.
6. Die schlechteste Gesellschaft. To what is the reference ?
7. Geister=chor. Are these good or bad spirits ? What is the nature of the attendant spirit in the Puppet Play ? If the Geister=chor be assumed as consisting of good spirits, what explanation is to be given of the words of Mephistopheles "von den Meinen ?"
8. Give a brief account of the composition of Goethe's *Faust*, and mention the dates when the different additions were made.
9. Give the *Legend of Faust*, and state what details from it were introduced by Goethe into his drama.

II.

Translate :

Lessing, *Nathan the Wise*. Act V., Scene 2.

1. Account for the forms lassen and müssen.

2. *Es' wir, &c.* What change might be made in this line without affecting the sense?

3. What is the force of *nur* in *Und nimm nur*?

4. State the case and gender of *Gelder*.

5. *Es ist um Libanon, &c.* What is the subject?

6. *Hält.* What is understood here?

7. *Bin so dann.* Substitute a clearer statement, bringing out the time of the verb.

8. Give the story of the ring.

III.

Translate :

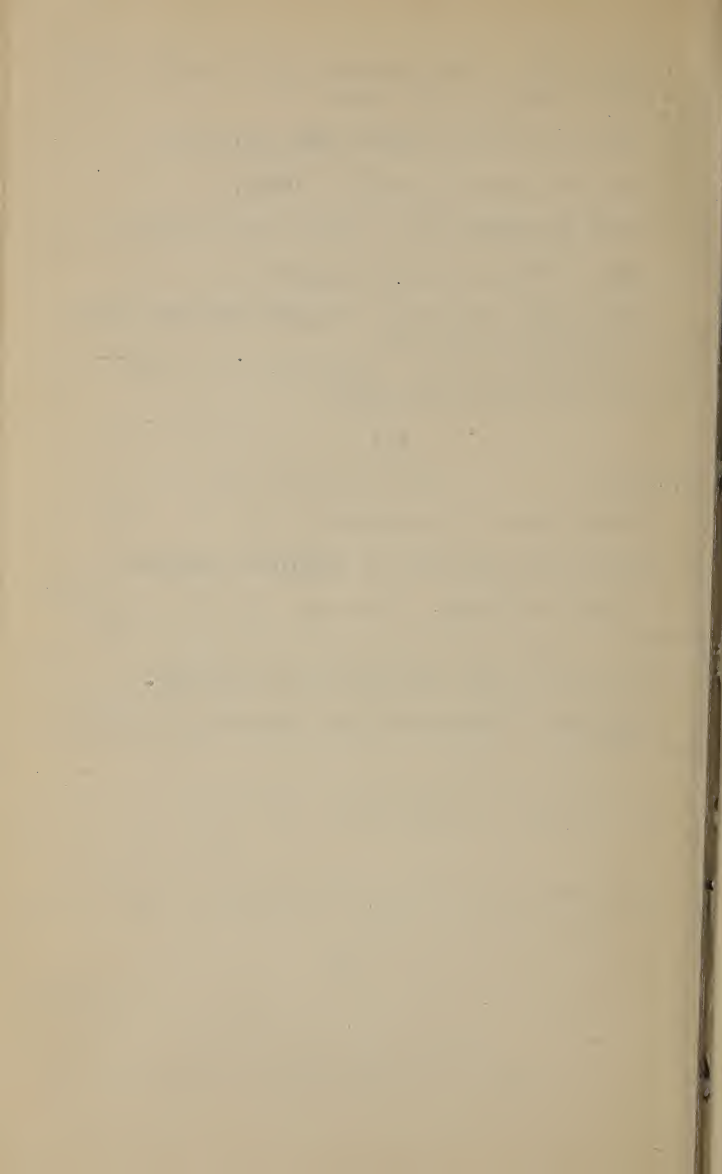
Wieland, Oberon, IX., Stanzas 1, 2.

1. Supply the auxiliaries to *gestürzt* and *gelassen*.

2. *Schreit, verschlingen.* Parse and give the principal parts.

3. Account for the case and form of *Schönen*.

4. *Die See.* What variations in meaning and gender does this noun have?



German.

SECOND PAPER.

I.

Translate :

Nibelungenlied, Avent. IV., Stanzas 243-246.

1. *Im* (243, v. 1). To whom does this refer ?
2. *Gie, warten, vant, enpfie, tet.* Parse and give the principal parts.
3. Modernize *âne, gein, die sîne, mære, vloren, sic.*
4. (246, v. 1). What governs *im* ?
5. *An der reise.* In what direction ?
6. *Diu, man.* Give the modern forms.
7. *Nach heleden.* Expand in German so as to give the full meaning.
8. *Sît.* What are the various meanings of this word ?
9. Where were the lands of *Gunther* and *Siegfried* respectively ?

II.

Translate at sight :

Lessing, Der Groszte Mann.

German.

THIRD PAPER.

I.

Literature.

1. Describe the literature of the Old H. G. period.
2. Give an outline of "Parzival" and "Tristan."
3. Write notes on *Walther von der Vogelweide*, *Hugo von Trimberg*, *Brandt*, *Murner*.
4. Give an account of the Swiss-Leipzig controversy and show its influence on German literature.

II.

Language.

1. Give Schleicher's tables of the Aryan and Teutonic languages.
2. Give a full account of the vowel-system of the Middle H. G.
3. Show the origin of the Umlaut *ß*.
4. Compare Gothic and Old H. G. as to the cases and numbers of nouns, and the voices of the verb.

III.

Translate into German :

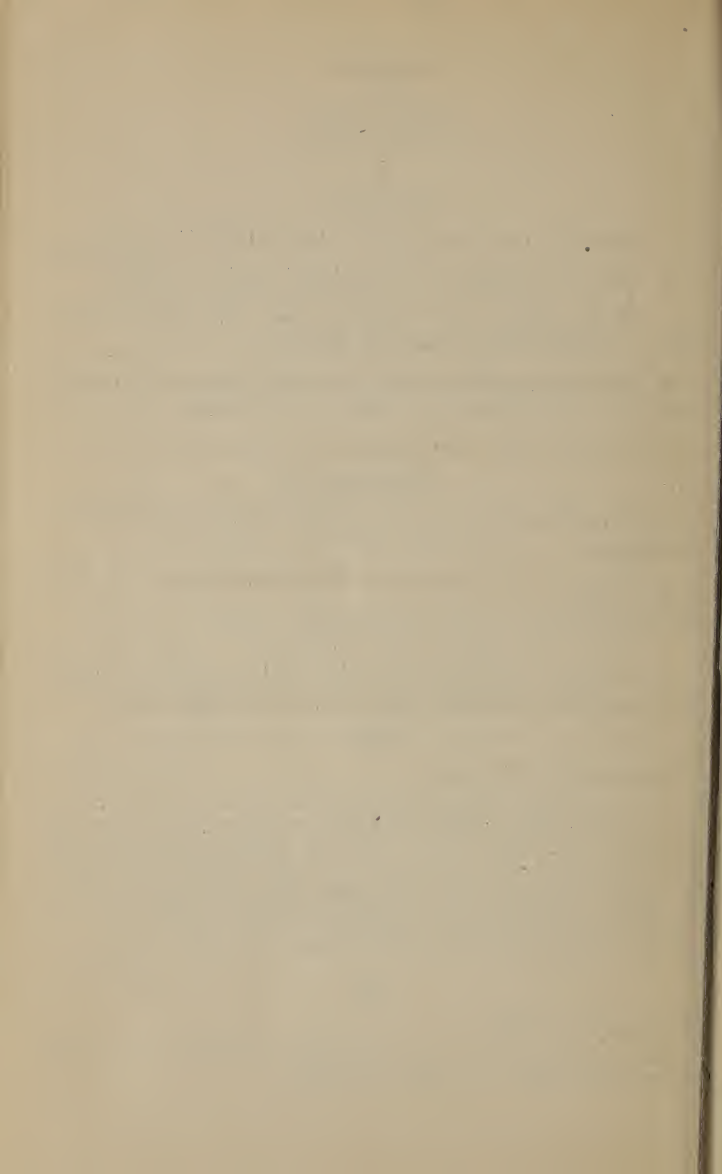
It is a peculiarity of many of the ancient myths that they represent events which happen every day or every year, as having happened once upon a time. The daily battle between day and night, the yearly battle between winter and spring, are represented almost like historical events, and some of the episodes and touches belonging originally to these constant battles of nature, have certainly been transferred into and mixed up with battles that took place at a certain time, such as, for instance, the Siege of Troy.

Max Müller.

IV.

Translate at sight :

Raumer, *Kreuzzug des Kaisers Friedrich Barbarossa*, from "Am 10 ten Junius 1190" to "mehr aufblühen!"



Medical Papers.

English Grammar.

1. Mention the different parts of speech and define each of them.

2. What is the difference between sex and gender?

3. "The distinction of sex in living beings is marked in three ways in the nouns that stand for them." Give several examples of each way.

4. Why are the *articles* regarded as adjectives?

5. What is a sentence? Give examples of simple, compound and complex sentences.

6. Distinguish between transitive and intransitive verbs, and give examples of each.

7. Give the third singular present indicative, third singular present subjunctive, present participle and past participle of the following verbs: dig, swim, flee, pay, pry, deal, thrust, threaten, think.

8. Analyse:—

They buried him darkly at dead of night,
The sods with their bayonets turning,
By the struggling moonbeams misty light,
And the lanterns dimly burning.

9. Parse the words in Italics:

1. The dead *were refused burial*.

2. He *was promised* a new coat.

3. I cannot *but admire* his courage.

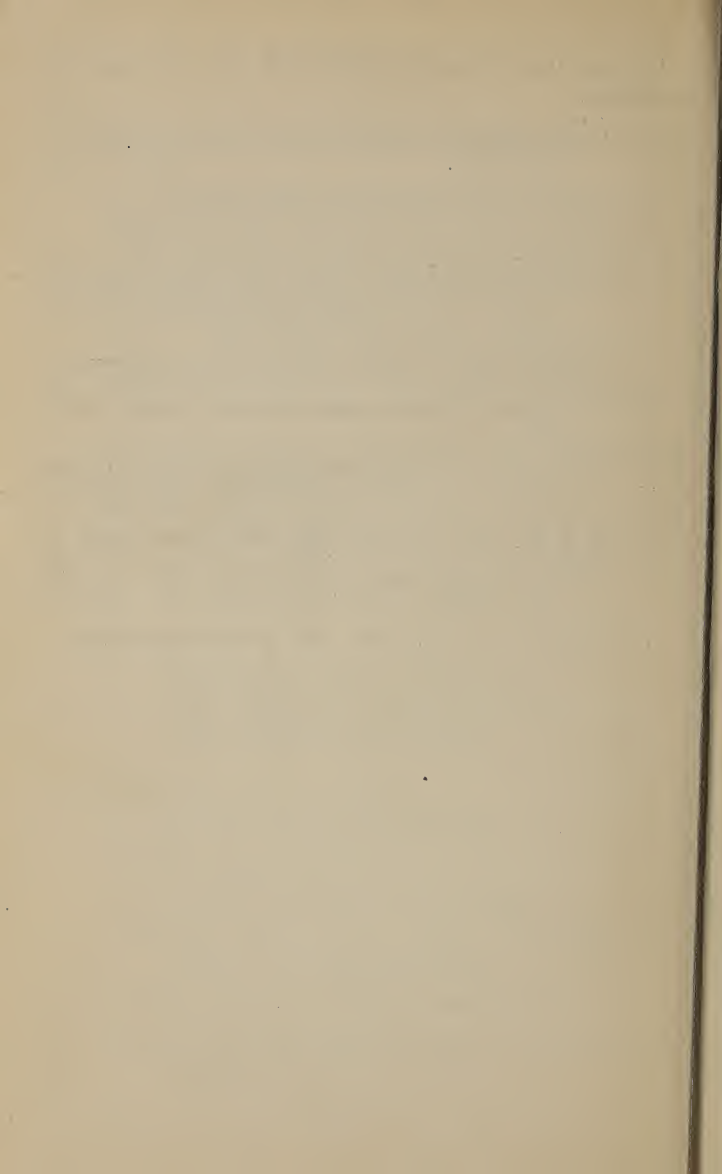
4. Better *dwell* in the midst of alarms than *reign* in this horrible place.

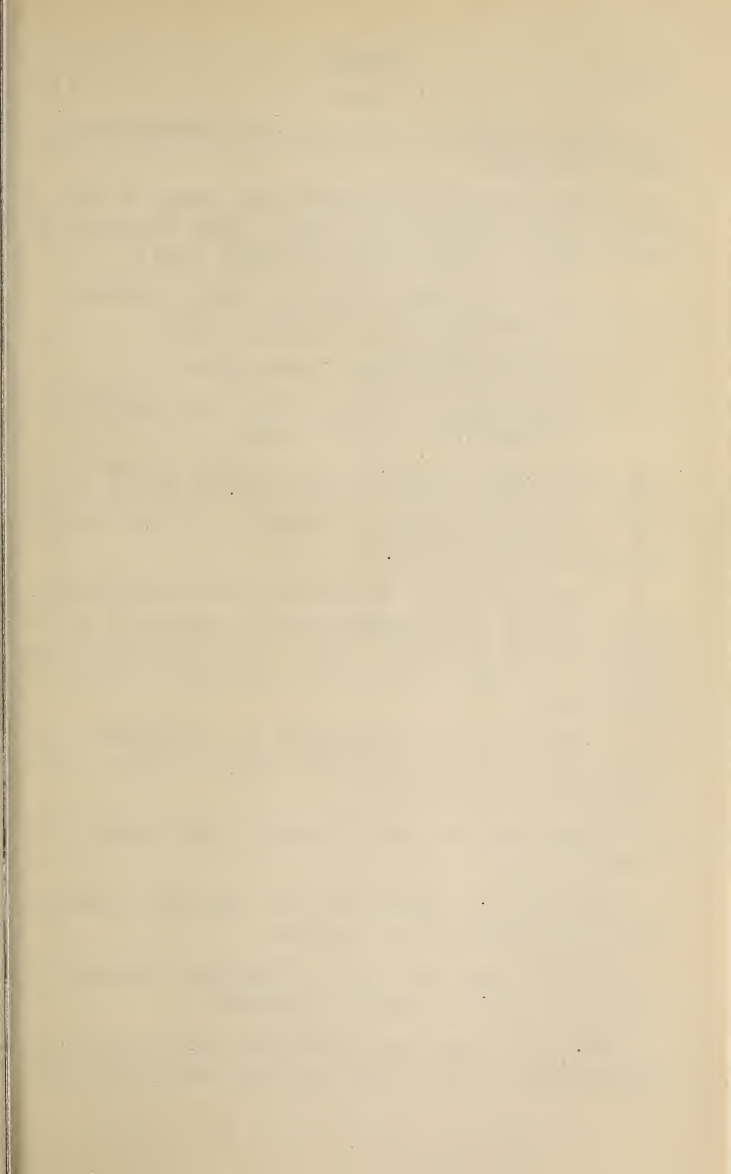
5. He is fond of *studying* mathematics.

6. *Where is the man that* will not fight for his country.

Correct the following errors, and give reasons for correction :

1. He thinks that what he don't know aint worth knowing.
2. What have you got in your hand ?
3. Can I leave my seat for a few minutes ?
4. Two teaspoonsful of the mixture, dissolved in a glass of water, and drank during effervescence, makes a cooling drink.
5. What did he say the name of this station was.
6. It is no use in us reasoning any longer with him.
7. The last hitch in this celebrated case appears to be the most absurd of all its predecessors.
8. If he dont come be sure and let me know.
9. Each of you boys have got as much as you can carry.
10. He is in a worse fix now than he ever was.





Physics.

1. Give a definition of Physics ; also define the three states of matter.

2. What is necessary to change the state of rest of one body with respect to another ? What are the forces which destroy motion in the following cases ?

1. A railway train brought to rest at a station.

2. A bullet fired into a block of wood.

3. A ball rolled along a smooth green.

4. A ball suspended by a thread and allowed to swing till the motion ceases.

3. If the force of gravity be allowed to act for a second on a body, what velocity will it communicate to it ? Does this depend on whether the body begins from rest or is in motion ?

4. A body is thrown downwards from a great height with a velocity of 60 metres a second, what will be its velocity after 3 seconds ? What would have been its velocity if it had been thrown upwards instead of downwards ?

5. Could a boat be propelled by an engine in it blowing a continuous blast of air against a sail ? Give reasons for your answer.

6. State the third law of motion and explain the "kick of a gun."

7. Describe an experiment on Atwood's machine illustrating the first law of motion.

8. What is the law which describes whether an equilibrium shall be stable or unstable ?

9. Why is a cart loaded with hay more liable to be overturned on a rough road than one loaded with lead ?

10. Explain the reason why the oscillations of a pendulum are not the same at the Equator as at the Poles.

11. Show that friction is independent of the amount of surface in contact. Define the coefficient of friction.

12. If a piece of lead be held by a string, and the lead be then immersed in water, by how much will the pressure on the hand be diminished?

13. If a vessel containing water be in equilibrium on the scale-pan of a balance, will its weight be increased by holding a piece of lead in it supported by a string? Suppose the equilibrium restored, how much heavier will the vessel weigh if the lead is allowed to fall and rest at the bottom of the vessel?

14. Describe Torricelli's experiment and show what it proves.

15. How can the height of mountains be determined by Barometer observations?

16. How do the waves of light differ from the waves of sound?

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Arithmetic, Algebra and Geometry.

1. Show that the fraction $\frac{5+6}{6+7}$ is greater than $\frac{5}{6}$ and less than $\frac{6}{7}$.

2. Reduce the expression

$$\frac{\frac{1}{2} + \frac{1}{3} \text{ of } \frac{1}{4} + \frac{5}{6}}{\frac{1}{13} \text{ of } (1 + 5\frac{1}{2}) + \frac{5}{6} \text{ of } \frac{1}{23} \text{ of } (7 - 2\frac{2}{5})} - \frac{1}{3}.$$

3. Find the value of $3.\dot{3}$ of $\frac{4.4}{735}$ of 1 square foot, 3 square inches.

4. How far may a student ride with his father, who leaves Kingston at 12:30, and will drive to Bath (12 miles) in 2 hours, so that he may, by walking at the rate of 3 miles an hour, be back by a quarter before 3,—in good time for examination?

5. If a boy can paddle his own canoe three-quarters of a mile *down* the river in ten minutes, but without the aid of the stream would take a quarter of an hour; what is the rate of the stream per hour? and how long will it take him to return against it?

6. Divide $x^{12} + x^6 - 2$ by $x^4 + x^2 + 1$.

7. Simplify the following expressions :

$$(x+b)(x+c) - (a+b+c)(x+b) + a^2 + ab + b^2 + 3ax.$$

$$8. \frac{a^2 - 3ab + 2b^2}{a - 2b} - \frac{a^2 - 7ab + 12b^2}{a - 3b}$$

9. A father is three times as old as his son; four years ago the father was four times as old as his son then was; what is the age of each?

10. If a straight line be divided into any two parts, the square on the whole line is equal to the squares on

the two parts together with twice the rectangle contained by the parts. Euc. II. 4.

11. If a parallelogram and a triangle be upon the same base, and between the same parallels, the parallelogram is double of the triangle. Euc. I. 41.

Latin Translation and Grammar.

Translate :

Apud Xenophontem autem moriens Cyrus major haec dicit : " Nolite arbitrari, o mihi carissimi filii, me quum a vobis discessero nusquam aut nullum fore. Nec enim dum eram vobiscum animum meum videbatis : sed eum esse in hoc corpore ex iis rebus, quas gerebam, intelligebatis. Eundem igitur esse creditote, etiam si nullum videbitis. Nec vero clarorum virorum post mortem honores permanerent, si nihil eorum ipsorum animi efficerent quo diutius memoriam sui teneremus. Mihi quidem nunquam persuaderi potuit, animos, dum in corporibus essent mortalibus, vivere ; quum exissent ex eis emori : nec vero tum animum esse insipientem quum ex insipienti corpore evasisset ; sed quum omni admixtione corporis liberatus purus et integer esse coepisset tum esse sapientem. Atque etiam quum hominis natura morte dissolvitur, ceterarum rerum perspicuum est quo quaeque discedant ; abeunt enim illuc omnia unde orta sunt ; animus autem solus nec quum adest nec quum discedit apparet."

Cato Major, XXII.

1. State the general design of the work and the manner in which Cicero proceeds to carry it out.

2. Give the principal parts of :—Moriens, nolite, discessero, fore, gerebam, creditote, efficerent, emori, caepisset, evasisset.

3. Parse :—Carissimi, eundem, quo, diutius, insipientem, dormientium, remissi, colitote, interiturus, verentes.

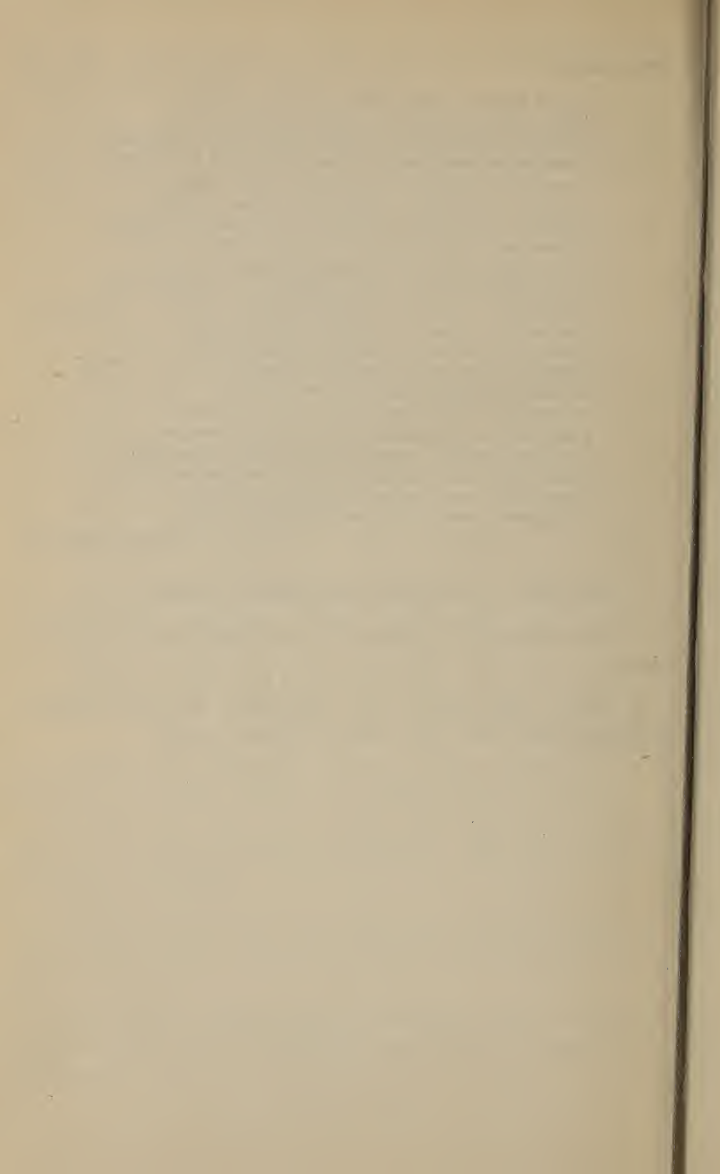
4. Decline in conjunction in singular only, moriens Cyrus major, and in singular and plural, animum insipientem.

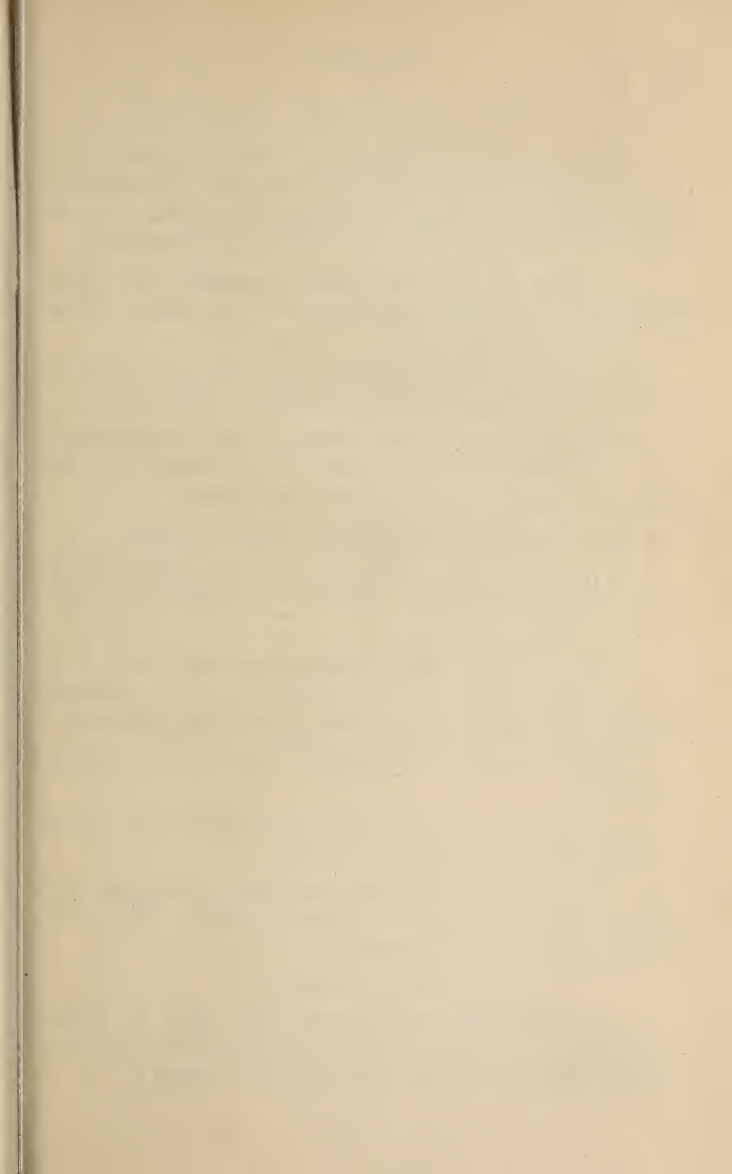
Translate :

Est in secessu longo locus ; insula portum
Efficit objectu laterum, quibus omnis ab alto
Frangitur inque sinus scindit sesse unda reductos.
Hinc atque hinc vastæ rupes, geminique minantur
In cœlum scopuli, quorum sub vertice late
Æquoro tuta silent ; tum silvis scena coruscis
Desuper horrentique atrum nemus imminet umbra.
Fronte sub adversa scopulis pendentibus antrum ;
Intus aquæ dulces, vivoque sedilia saxo ;
Nympharum domus. Hic fessas non vincula naves
Ulla tenent ; unco non alligat ancora morsu.
Huc septem Æneas collectis navibus omni
Ex numero subit ; ac magno telluris amore
Egressi, optata potiuntur Troës arena,
Et sale tabentes artus in litore ponunt.
Ac primum silici scintillam excudit Achates,
Suscepitque ignem foliis, atque arida circum
Nutrimenta dedit, rapuitque in fomite flammam.
Tum Cererem corruptam undis Cerealiaque arma
Expediunt, fessi rerum ; frugesque receptas
Et torrere parant flammis et frangere saxo.

Virgil I. 159-179.

1. Decline:—Aequora tuta, atrum nemus.
2. Give rule for the case of:—Objectu, sinus, sylvis, saxo.
3. Give the gender of:—Agricola, humus, vulgus. pelagus, arbor, os, iter, tellus, manus, corpus.





Chemistry.

FIRST PAPER.

1. What substances are formed when aqueous solution of caustic soda is added to aqueous solutions of the following: (a) cupric sulphate, (b) chloral, (c) sulphuric acid, (d) chlorine, and (e) cream of tartar?

2. (a) How is glycerine manufactured? (b) What substances are used to adulterate it? (c) How would you detect them?

3. Describe, giving equations, the chemical actions by which cane sugar is converted into alcohol.

4. What substances are formed by the fermentation of (a) urea, (b) milk sugar, and (c) a mixture of cane sugar, putrid cheese, sour milk, and chalk?

5. How is aniline manufactured from benzine?

6. What substances are formed by the fermentation of oil of bitter almonds? What is *artificial oil of bitter almonds*?

7. To what classes of organic compounds do the following belong: *quinine*, *strychnine*, *salicin*, *ethylene*, *chloral*, *carbolic acid*, *gun cotton*, *starch* and *glycerine*?

8. How would you prepare a solution of *ferric chloride*?

9. An insoluble white powder is given you. How would you prove it to be *calomel*?

10. How are the following prepared: *bismuth subnitrate*, *tartar emetic*, and *argentic nitrate*. Write the formulas for these substances.

SECOND PAPER.

1. (a) State, giving examples, the *Law of Fixed Proportions*. (b) How many ounces of *iron*, and how many of *oxygen* in 100 ounces of ferric oxide?

2. (a) What is the *Law of Diffusion of Gases*? (b) Calculate the specific weights of *carbon monoxide*, *nitrogen* and *ammonia*, taking *air* as the standard (*air* is 14.43 times as heavy as hydrogen).

3. Explain the cooling effect of a spray of ether.

4. How would you prepare an aqueous solution of sulphurous acid?

5 (a) Indicate by equations the chemical actions which take place in the manufacture of sulphuric acid.

(b) What are the raw materials used?

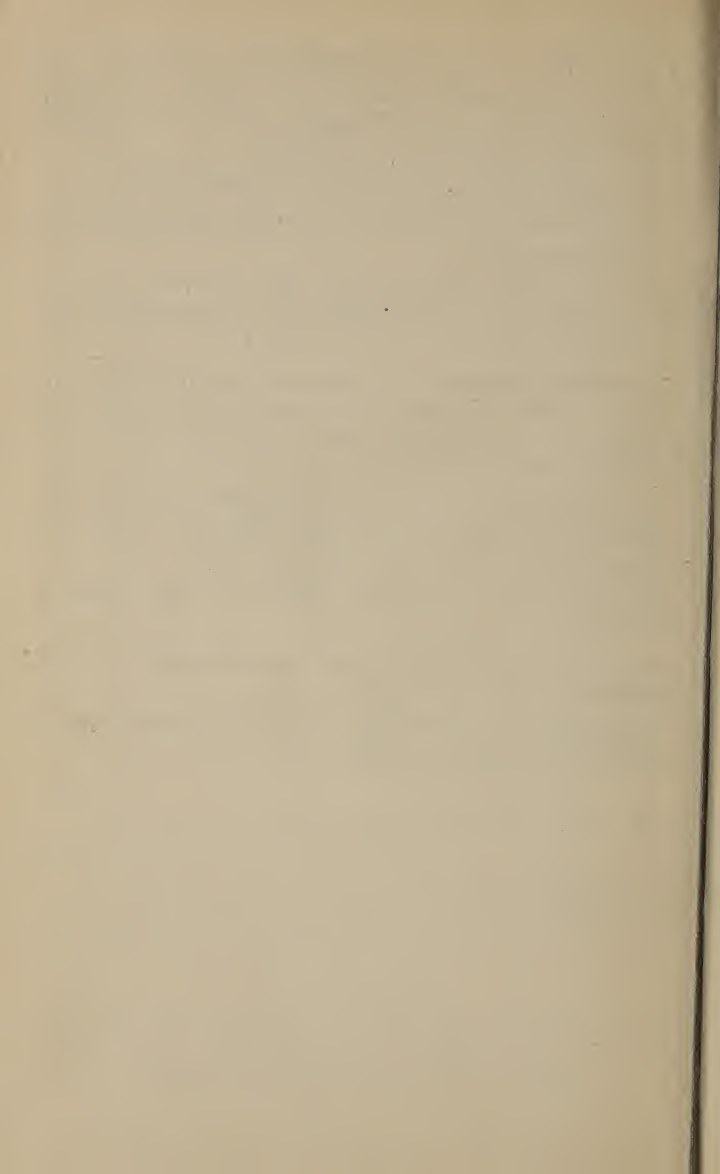
6. What substances are formed by the action of chlorine on the following: (a) *hydrogen*, (b) *water*, (c) *aqueous solution of potassic iodide*, (d) *phosphorus*, and (e) *sulphuretted hydrogen*?

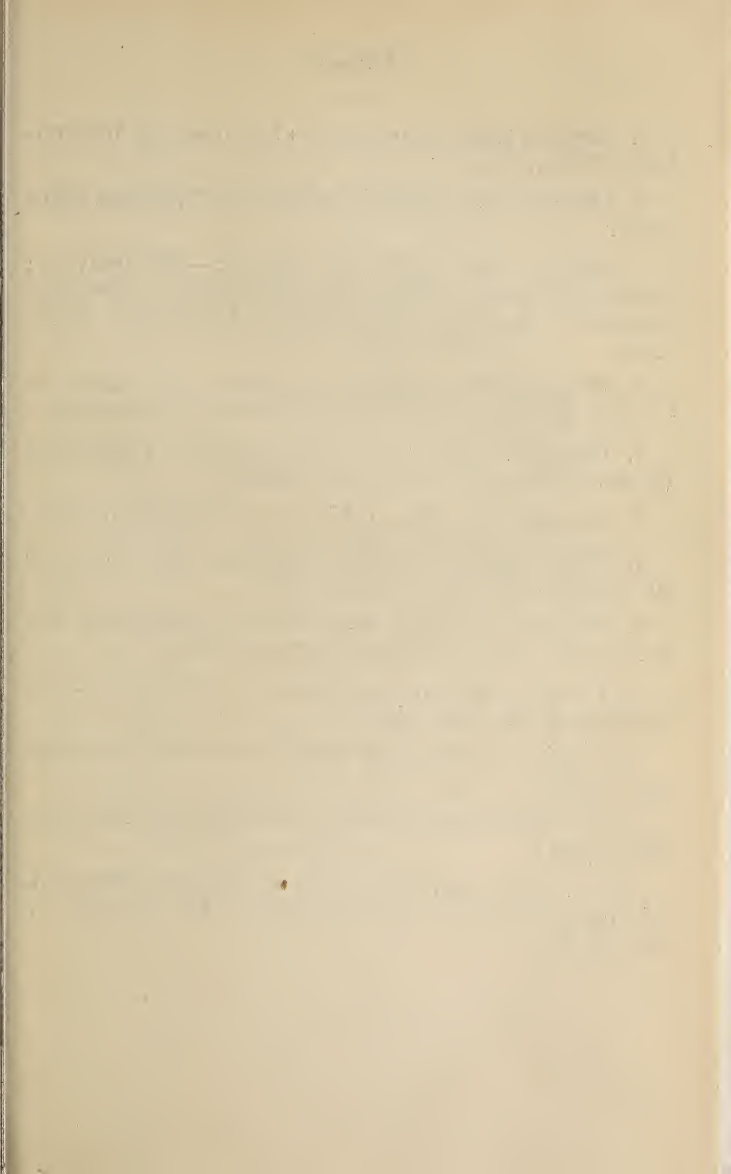
7. Mention (a) the principal *sulphates* and *chlorides* which are *insoluble*, and (b) the principal *carbonates* and *phosphates* which are *soluble* in water.

8. How does a chemical *compound* differ from a *mixture*?

9. How is *hydrochloric acid* manufactured? Give equations.

10. Describe a practical method for preparing a solution of ammonia in water.





Botany.

1. Explain three theories as to the mode of thickening of Cell-walls.

2. Describe two modes in which Cell-formation takes place.

3. Define the following terms:—Parenchyma; Tracheary tissue; Aleurone; Protoplasm; Primary meristem; Parietal placentation; Loculicidal dehiscence.

4. What are the parts of (1) a Stem, (2) Leaf, (3) Corolla, (4) Calyx, (5) Pistil, (6) Stamen, (7) Embryo.

5. Describe fully (1) one of the organs of Vegetation, (2) one of the organs of Reproduction.

6. Describe the different kinds of subterranean stems.

7. What terms are used to describe (1) the Base, (2) the Margin, (3) the Apex of leaves.

8. Explain how the different forms of Indefinite Inflorescence may be derived from one form.

9. Describe any two adaptations of flowers for the securing of Cross-fertilization.

10. Define the different kinds of simple dry dehiscent Fruits.

11. In what respects does Assimilation differ from Metastasis?

12. In what parts of plants are Reserve-Materials laid up and what use do they serve in the economy of the plant?

Physiology.

1. Where are white blood Corpuscles produced ; give some conditions affecting their number in the blood. Explain their position in Capillary blood current, and what is known as their amœbiform movement.

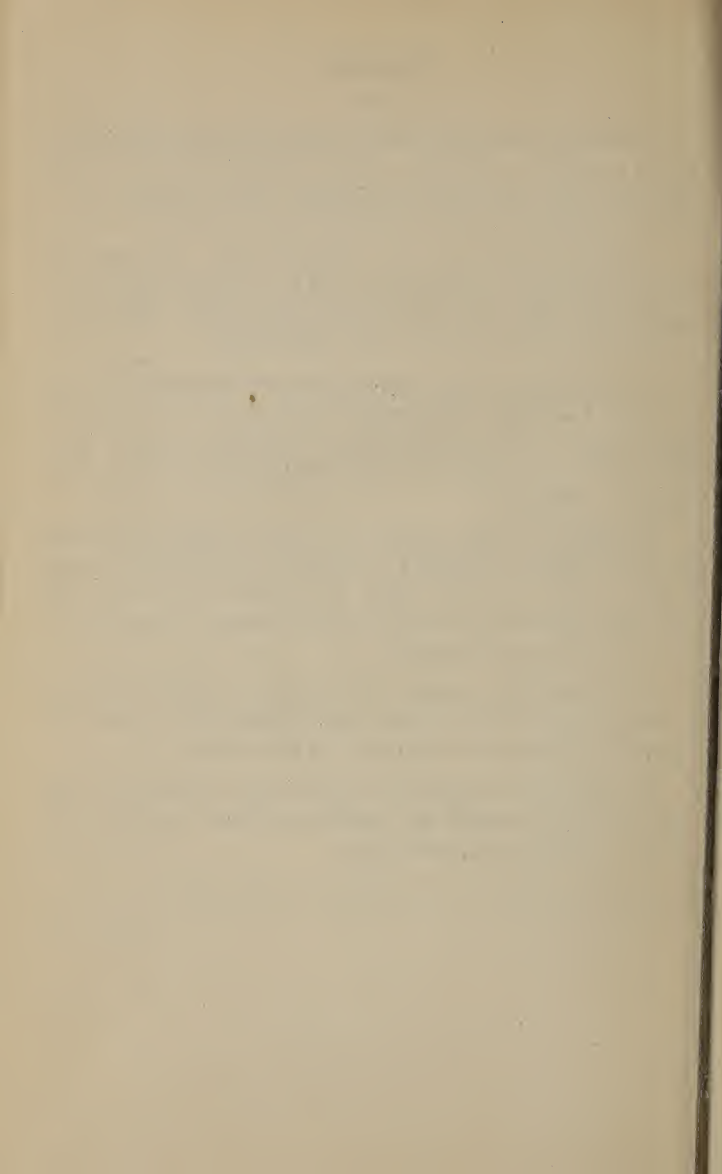
2. What is Glycogen? State its use, the class of food favoring its production, and how eliminated when in excess. Give Trommer's test for Sugar, with precautions to be observed in its application.

3. Give the nervous mechanism of Respiration, and explain how the respiratory impulse in the lungs is generated. What constitutes Inspiration, and name the muscles concerned in the normal act. How is Expiration effected?

4. Where are the peripheral organs concerned in the sense of Taste localized? Describe the mucous membrane of the tongue; name its nerves of special and general sensation, and give conditions necessary for the development of taste.

5. Give origin, course, distribution, and functions of portio dura of 7th Nerve, and state phenomena observed in disease or injury of its structure.

6. Describe minutely the Membrana Tympani, and explain how sound is transferred from external auditory meatus to internal ear.





Surgery.

1. Name the different varieties of lymph. What is the significance of each?
 2. Describe the nerve supply to Blood Vessels.
 3. Give diagnosis of mammary scirrhus.
 4. What risks are there in opening deep seated abscess; how avoided?
 5. What are the usual difficulties in treating simple fracture of the upper third of the femur?
 6. Describe symptoms and give treatment of dislocation of Elbow Joint backwards.
 7. Mention four methods of removing hemorrhoids. Which would you select and why?
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Practice of Medicine.

1. How would you treat a case of Sub-acute Gastritis?
2. Diagnose Measels from Scarlatina.
3. How would recognize Pericarditis; 1st, before effusion has taken place, 2nd, after effusion has occurred?
4. State the various pathological conditions which lead up to Dropsies, and explain how these pathological conditions produce the dropsies.
5. How would you recognize the following deposits in the urine: 1st Urates, 2nd Phosphates, 3rd Pus, 4th Mucus? Give the causes of their presence and treatment.
6. Mention the different forms of Cerebral Hemorrhage, and give causes and treatment.

Obstetrics.

1. Give the Mechanism of Labour in persistent Third position of Vertex, and state wherein the Labour differs from the First position.

2. What are the contra-indications for the use of Ergot.

3. What are the causes of Pelvic deformity, and give the indications for delivery in the several degrees of it.

4. Why should labour in Twin Pregnancy be more dangerous than in Single Pregnancy?

5. A patient, about the eighth month of Pregnancy, awakes from sleep with profuse Hemorrhage, you are suddenly called. State your procedure, Diagnosis and management.

6. Give Symptoms and Treatment of Phlegmasia Dolens.

Medical Jurisprudence.

1. What are the positive and unequivocal signs of Death? In cases of Apparent Death what are the states into which the body may fall so as to simulate death, and how would you distinguish these states from real death?

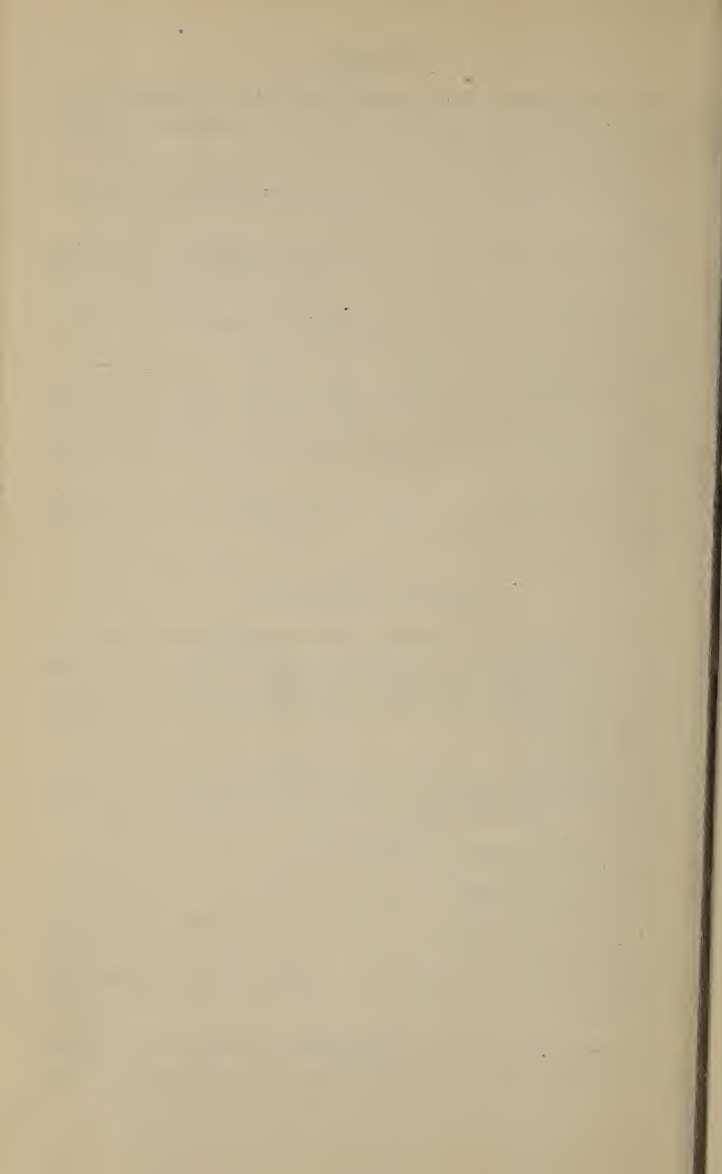
2. Explain, as far as you are able, what constitutes insanity. Describe general paralysis of the insane.

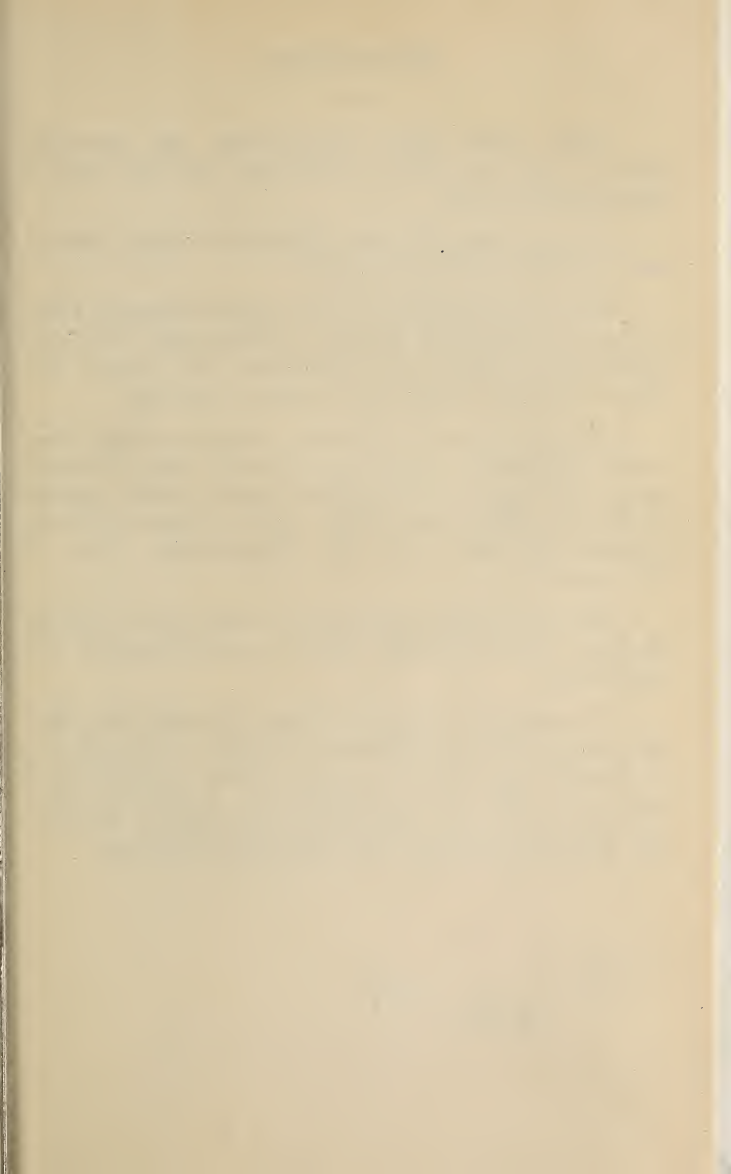
3. Give the signs of Pregnancy.

4. Give the signs of recent delivery.

5. How is the Court of the Coroner formed? Is the Coroner bound to take notes of the case before him, and are these notes used if a trial results in the Supreme Court?

6. Give the points of distinction between concussion of the brain, alcoholic poisoning, and opium poisoning.





Materia Medica.

1. Name three chief Antiperiodics, the principal diseases they are used in, their dose, and the mode of administering them.

2. How are Grey Powder, Nitrite of Amyl, Chloroform and Rochelle Salts made ?

3. Write a prescription for two dozen Cathartic Pills, to contain Compound Extract of Colocynth, Calomel, Podophyllin, Extract of Belladonna and Croton Oil. Two to be taken every other night at bedtime.

4. Give the doses of : Extract of Calabar Bean, Corrosive Sublimate, Iodoform, Carbolic Acid, Permanganate of Potash, Diluted Hydrocyanic Acid, Acetate of Morphia, Elaterium, Gallic Acid, Nitrate of Silver, Sulphate of Iron and the Hypodermic dose of Hyoscyamin.

5. Give the contra-indications to the use of Chloral Hydrate, Tartar Emetic, Opium, and Chloroform (by inhalation).

6. Contrast the action of Opium, Alcohol and Quinine on the Brain ; of Mercury and Iron on the Blood ; of Digitalis and Aconite on the Heart ; of Nitrate of Amyl and Ergot on the Capillaries ; of Calabar Bean and Strychnia on the Spinal Cord and Motor Nerves ; and of the Potash Salts and Vegetable Diuretics.

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